Conference Program

Note: All Scientific Sessions will be held in the Omni Hotel at 675 L Street.
Poster Sessions will be held at the Hard Rock Hotel at the corner of 5th Avenue & L Street.

Sunday, January 20

7:00 p.m.-7:10 p.m. **Welcoming Remarks**

7:10 p.m.-8:00 p.m. **Keynote Address**
Omni Hotel San Diego, Grand Ballroom

Metastasis and diversity in breast cancer
Kornelia Polyak, Dana-Farber Cancer Institute, Boston, MA

8:00 p.m.-9:30 p.m. **Opening Reception**

Monday, January 21

7:00 a.m.-8:00 a.m. **Continental Breakfast**
Omni Hotel San Diego, Art Gallery

8:00 a.m.-10:00 a.m. **Session 1: The Soil**
Session Chairperson: Zena Werb, Helen Diller Family Comprehensive Cancer Center, University of California, San Francisco, CA
Omni Hotel San Diego, Grand Ballroom

Microenvironmental control of bone metastasis
Sylvain Provot, INSERM, Paris, France

The role of the microenvironment protein cathelicidin LL-37 in pancreatic ductal adenocarcinoma*
Christopher Heeschen, Spanish National Cancer Research Centre (CNIO), Madrid, Spain

Normalizing tumor cell metabolism in breast cancer metastasis: A novel therapeutic approach
Brunhilde Felding-Habermann, Scripps Research Institute, La Jolla, CA

Identification of luminal breast cancers that establish a tumor supportive macroenvironment defined by proangiogenic platelets and bone marrow derived cells*
Timothy Marsh, Brigham and Women's Hospital, Boston, MA

The extracellular matrix is fertile soil
Richard Hynes, Massachusetts Institute of Technology, Cambridge, MA

*Short talks from proffered papers

10:00 a.m.-10:30 a.m. **Break**

10:30 a.m.-12:30 p.m. **Session 2: Determinants of Tumor Metastasis**
Session Chairperson: Yibin Kang, Princeton University, Princeton, NJ
Omni Hotel San Diego, Grand Ballroom

Development of a therapeutic peptide for the treatment of metastatic cancer
Christine A. Iacobuzio-Donahue, Johns Hopkins University, Baltimore, MD

The cholesterol metabolite, 27-hydroxycholesterol, increases breast cancer tumor growth and metastasis*
Erik Nelson, Duke University School of Medicine, Durham, NC

Epithelial-mesenchymal plasticity in breast cancer metastasis
Yibin Kang

Targeted functional genomics screen for novel metastasis modulators in breast cancer*
Angela Riedel, Molecular Oncology, University of Southern Denmark, Odense, Denmark

Macrophages as a therapeutic target in invasive gliomas
Joanna A. Joyce, Memorial Sloan-Kettering Cancer Center, New York, NY

12:45 p.m.-2:45 p.m. **Poster Session A and Lunch**
Hard Rock Hotel San Diego, Legends Ballroom

3:00 p.m.-5:00 p.m. **Session 3: Imaging Metastasis**
Session Chairperson: Matthew Krummel, University of California, San Francisco, CA
Omni Hotel San Diego, Grand Ballroom

Real-time microscopy of brain metastasis formation: From blood vessels to cancer stem cells
Frank Winkler, German Cancer Research Center, Heidelberg, Germany

Intravital multiphoton imaging reveals multicellular streaming as a crucial component of in vivo cell migration in human breast tumors*
Antonia Patsialou, Albert Einstein College of Medicine, Bronx, NY

Imaging metastasis in the lung
Matthew Krummel

Intravital imaging of metastatic liver colonization*
Laila Ritsma, Hubrecht Institute, Utrecht, The Netherlands

Issues in the development of molecular imaging agents for cancer imaging: An observation from the MICAD editors
Liang Shan, National Institutes of Health, Bethesda, MD

*Short talks from proffered papers

5:15 p.m.-7:15p.m. **Poster Session B and Reception**
Hard Rock Hotel San Diego, Legends Ballroom

Tuesday, January 22

7:00 a.m.-8:00 a.m. **Continental Breakfast**
Omni Hotel San Diego, Art Gallery

8:00 a.m.-10:00 a.m. **Session 4: Metastasis Signaling Pathways**
Session Chairperson: Joan Massagué, Memorial Sloan-Kettering Cancer Center, New York, NY
Omni Hotel San Diego, Grand Ballroom

Niches and pathways of latent and overt metastasis
Joan Massagué

A distinct translational regulon driven by mTOR signaling steers cancer metastasis*
Andrew Hsieh, University of California, San Francisco, CA

Inhibition of Ron kinase blocks conversion of micrometastases to overt metastases by boosting antitumor immunity
Alana L. Welm, University of Utah, Salt Lake City, UT

miR-15b and its novel target, metastasis suppressor 1 (MTSS1), are part of a global network of coding and noncoding EGF-stimulated genes*
Merav Kedmi, Weizmann Institute of Science, Rehovot, Israel

HIFs, hypoxia, and tumor progression
M. Celeste Simon, Abramson Family Cancer Research Institute, University of Pennsylvania, Philadelphia, PA

10:00 a.m.-10:30 a.m. **Break**

*Short talks from proffered papers

10:30 a.m.-12:30 p.m. **Session 5: Angiogenesis and Inflammation in Metastasis**
Session Chairperson: Melody Swartz, Swiss Institute for Experimental Cancer Research, Lausanne, Switzerland
Omni Hotel San Diego, Grand Ballroom

Lymphatic vessels in the tumor microenvironment contribute to protumor immune modulation
Melody A. Swartz

Targeting the HIF-1α/p300 complex with epidithiodiketopiperazines for antiangiogenic therapy*
Kelie Reece, National Cancer Institute, Bethesda, MD

Regulaton of metastasis via tumor-stromal interactions
Randolph S. Watnick, Harvard Medical School, Boston, MA

High angiogenic capacity of inflammatory neutrophils and polarized M2 macrophages is determined by production of MMP-9 unencumbered by its natural inhibitor TIMP-1*
Ewa Zajac, The Scripps Research Institute, La Jolla, CA

Circulating tumor cells: Biology and relevance for cancer therapy
Klaus Pantel, University Medical Center Hamburg, Hamburg, Germany

12:45 p.m.-2:45 p.m. **Poster Session C and Lunch**
Hard Rock Hotel San Diego, Legends Ballroom

3:00 p.m.-4:30 p.m. **Forum: Cancer Stem Cells and Metastasis**
Moderator: Tannishtha Reya, University of California, San Diego, CA
Omni Hotel San Diego, Grand Ballroom

Understanding the dynamics of cancer: From molecular pathways to in vivo imaging
Tannishtha Reya, University of California, San Diego, CA

Deregulation of stem cell self-renewal pathways in cancer
Michael F. Clarke, Stanford University School of Medicine, Stanford, CA

Modeling the breast cancer bone metastatic niche
Gabriela Dontu, King's College, London, United Kingdom

*Short talks from proffered papers

4:30 p.m.-6:30 p.m. **Session 6: Metastatic Signatures**
Session Chairperson: Samir M. Hanash, The University of Texas MD Anderson Cancer Center, Houston TX
Omni Hotel San Diego, Grand Ballroom

GEM models in translational research
Lynda Chin, The University of Texas MD Anderson Cancer Center, Houston TX

Collective invasion in breast cancer is led by cancer cells distinguished molecularly by basal epithelial markers*
Kevin Cheung, Johns Hopkins School of Medicine, Baltimore, MD

Cancer stem cells and the mechanisms of metastatic dissemination
Robert A. Weinberg, Massachusetts Institute of Technology, Boston, MA

Identifying different functional mechanisms of invasion from mesenchymal and proneural subtypes of glioblastoma*
Sungwon Jung, Translational Genomics Research Institute, Phoenix, AZ

The microenvironment as a source of markers for the early detection of cancer
Samir M. Hanash

Wednesday, January 23

7:00 a.m.-8:00 a.m. **Continental Breakfast**
Omni Hotel San Diego, Art Gallery

8:00 a.m.-10:00 a.m. **Session 7: Metastatic Dormancy**
Session Chairperson: Doug T. Fearon, University of Cambridge, Cambridge, United Kingdom
Omni Hotel San Diego, Grand Ballroom

Immune cells promote metastasis and control dormancy
Jean Pierre Abastado, Singapore Immunology Network, BMSI, A-STAR, Singapore

microRNAs: Master regulators of human tumor dormancy*
Nava Almog, Tufts University School of Medicine, Boston, MA

Pathways in tumor dormancy and recurrence
Lewis A. Chodosh, University of Pennsylvania, Philadelphia, PA

ErbB2-induced epithelium to mesenchyme transition (EMT) is blocked by p38α/β; signaling to restrict early dissemination in breast cancer*
Kathryn Harper, Mount Sinai School of Medicine, New York, NY

The FAP+ stromal cell and escape from immunosurveillance
Doug T. Fearon

*Short talks from proffered papers

10:00 a.m.-10:15 a.m. **Break**

10:15 a.m.-12:00 p.m. **Session 8: Treatment of Metastatic Cancer**
Session Chairperson: Bruce R. Zetter, Boston Children's Hospital, Boston, MA
Omni Hotel San Diego, Grand Ballroom

Targeting stress-induced molecular chaperones CLU and Hsp27 to inhibit EMT and metastases
Martin Gleave, University of British Columbia, Vancouver, BC, Canada

Antitumor effect of metformin in breast cancer is associated with AMPK and FOXO3a activation*
Eveline Fonseca, University of São Paulo, São Paolo, Brazil

Models of postsurgical early and late stage metastasis for improving preclinical adjuvant and metastatic therapy investigations
Robert S. Kerbel, Sunnyside Medical Centre, Toronto, ON, Canada

Omic and imaging approaches to understanding breast cancer progression
Joe W. Gray, Oregon Health and Science University, Portland, OR

12:00 p.m. **Closing Comments and Departure**

*Short talks from proffered papers