

FRIDAY, April 8

FRIDAY, APR. 8, 2022

☆ **Session OPO.PS01.01 Population Sciences** 12:00 PM - 1:00 PM
E-Poster Website

☆ **Presentation 5883 Development and testing of a polygenic risk score for proliferative breast cancers** 12:00 PM - 1:00 PM

Yiwey Shieh, Jacquelyn Roger, Scott Huntsman, Donglei Hu, Jovia L. Nierenberg, Pooja Middha Kapoor, Christina Yau, Gillian Hirst, Laura Van 't Veer, Laura Esserman. Weill Cornell Medicine, New York, NY, University of California, San Francisco, San Francisco, CA

☆ **Presentation 5893 Analgesic use and renal cell carcinoma incidence and survival: Results from three prospective cohort studies** 12:00 PM - 1:00 PM

Rebecca E. Graff, Alejandro Sanchez, Toni K. Choueiri, Meir J. Stampfer, Edward L. Giovannucci, Lorelei A. Mucci, Eunyoung Cho, Mark A. Preston. University of California, San Francisco, San Francisco, CA, University of Utah, Salt Lake City, UT, Dana-Farber Cancer Institute, Boston, MA, Harvard T.H. Chan School of Public Health, Boston, MA, Brown University, Providence, RI, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

SATURDAY, April 9

☆ **Session ED009 Advances in SHP2 Biology and Therapeutics for Targeting RAS-Driven Cancers** 10:00 AM - 11:30 AM
Room 220-222, Convention Center

☆ **Presentation Molecular modifiers of SHP2 inhibitor sensitivity** 10:00 AM - 10:20 AM
Trever G. Bivona. UCSF - University of California San Francisco, San Francisco, CA

☆ **Session ED044 Regeneration, Resistance, and Recovery in Irradiated Tissues** 12:30 PM - 2:00 PM
Room 343-345, Convention Center

☆ **Presentation The radiobiology of TGFβ in tumor control** 12:30 PM - 12:50 PM
Mary Helen Barcellos-Hoff. UCSF, San Francisco, CA

☆ **Session MW003 Introduction to Network Biology and Knowledge Graphs in Cancer Research** 12:30 PM - 2:00 PM
Room 220-222, Convention Center

☆ **Presentation Cytoscape workflow for cancer genomics and proteomics** 1:00 PM - 1:20 PM
John Morris. University of California San Francisco, San Francisco, CA

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SUNDAY, April 10

☆ **Session ADT01 Advances in Precision Diagnostics and Therapeutics** 1:00 PM - 2:30 PM
Great Hall AD, Convention Center

☆ **Presentation Illuminating actionable dependencies in cancer pathways** 1:55 PM - 2:15 PM
[Michael T. McManus](#) UCSF - University of California San Francisco, San Francisco, CA

☆ **Session SY27 Identification of Pediatric Cancer Dependencies** 1:00 PM - 2:30 PM
Room 278-282, Convention Center

☆ **Presentation Genome-informed vulnerabilities for treatment of osteosarcoma** 1:30 PM - 1:50 PM
[E. Alejandro Sweet-Cordero](#) UCSF - University of California San Francisco, San Francisco, CA

☆ **Session CTPL01 Clinical Trials of Cellular Immunotherapies** 1:00 PM - 3:05 PM
Hall B-C, Convention Center

☆ **Presentation Discussant** 1:16 PM - 1:26 PM
[Hideho Okada](#) UC San Francisco, San Francisco, CA

☆ **Session PO.MCB09.01 Cancer Genomics 1** 1:30 PM - 5:00 PM
Section 3

☆ **Presentation 54 / 15 Integrative analysis of whole-genome and RNA sequencing in high-risk pediatric malignancies** 1:30 PM - 5:00 PM
[Henry J. Martell](#), [Avanthi Tayi Shah](#), [Alex G. Lee](#), [Bogdan Tanasa](#), [Stanley G. Leung](#), [Aviv Spillinger](#), [Heng-Yi Liu](#), [Inge Behroozfard](#), [Phuong Dinh](#), [Maria V. Pons Ventura](#), [Florette K. Hazard](#), [Arun Rangaswami](#), [Sheri L. Spunt](#), [Norman J. Lacayo](#), [Tabitha Cooney](#), [Jennifer G. Michlitsch](#), [Anurag K. Agrawal](#), [Marcus R. Breese](#), [E. Alejandro Sweet-Cordero](#). University of California San Francisco, San Francisco, CA, University of Texas Southwestern Medical Center, Dallas, TX, Stanford University, Palo Alto, CA, UCSF Benioff Children's Hospital Oakland, Oakland, CA

☆ **Session LBPO/TB01 Late-Breaking Research: Tumor Biology 1** 1:30 PM - 5:00 PM
Section 18

☆ **Presentation LB021 / 9 Mechanosensitive hormone signaling promotes mammary progenitor expansion and breast cancer progression** 1:30 PM - 5:00 PM
[Jason J. Northey](#), [Yoshihiro Yui](#), [Mary-Kate Hayward](#), [Connor Stashko](#), [FuiBoon Kai](#), [Janna Mouw](#), [Dhruv Thakar](#), [Jonathon Lakins](#), [Alastair Ironside](#), [Susan Samson](#), [Rita Mukhtar](#), [E. Shelley Hwang](#), [Valerie Weaver](#). University of California, San Francisco, San Francisco, CA, Western General Hospital, NHS Lothian, Edinburgh, United Kingdom

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SUNDAY, April 10th (cont).

☆ Session TM08 Tumor Microenvironment Working Group (TME) Town Hall Meeting and Networking Reception	6:30 PM - 8:30 PM
Grand Ballroom C, Hilton New Orleans Riverside	
☆ Presentation Spatiotemporal co-dependency between macrophages and exhausted CD8+ T cells in cancer	7:10 PM - 7:25 PM
Kelly Kersten , University of California San Francisco, San Francisco, CA	

MONDAY, April 11th

☆ Session PO.ET03.03 Lung Cancer Treatment Resistance	9:00 AM - 12:30 PM
Section 23	
☆ Presentation 1107 / 20 Notch activation drives resistance to Kras(G12C) inhibition in lung adenocarcinoma	9:00 AM - 12:30 PM
Elizabeth E. Hwang , Alex Lee , Stanley Leung , Marcus Breese , Alejandro Sweet-Cordero , University of California San Francisco, San Francisco, CA, University of California San Francisco, San Francisco, CA	
☆ Session PO.TB04.05 Metastatic Cell Plasticity: EMT and Stem Cell	9:00 AM - 12:30 PM
Section 12	
☆ Presentation 964 / 16 Tumor cell plasticity promotes metastasis across heterogeneous tumors	9:00 AM - 12:30 PM
Juliane Winkler , Weilun Tan , Angela O. Pisco , Andrei Goga , Spyros Darmanis , Zena Werb , UCSF, San Francisco, CA, Chan Zuckerberg Biohub, San Francisco, CA, Chan Zuckerberg Biohub, San Francisco, CA, UCSF, San Francisco, CA	
☆ Session PO.TB01.01 Genetically Engineered Mouse Models 1	9:00 AM - 12:30 PM
Section 10	
☆ Presentation 911 / 1 Ablation of rare tumor propagating cells during early lung adenocarcinoma development abrogates tumor growth and progression	9:00 AM - 12:30 PM
Kieren D. Morini , Emma C. Champion , Phuong T. K. Dinh , Elizabeth E. Hwang , Leanne C. Sayles , E. Alejandro Sweet-Cordero , UCSF, San Francisco, CA	
☆ Session PO.MD01.01 AACR Project GENIE Use Cases 1	9:00 AM - 12:30 PM
Section 26	
☆ Presentation 1168 / 15 From clinical mutational data to a novel lung cancer mouse model -NF1 inactivation cooperates with RASA1 inactivation to drive non-small cell lung cancer (NSCLC)	9:00 AM - 12:30 PM
Lin Song , Thaidy Y. Moreno Rodriguez , Adam Olshen , Eric Collisson , University of California San Francisco, San Francisco, CA	

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MONDAY, April 11th (cont).

☆ **Session AOS08 The Next Generation of Targets for Prostate Cancer** 10:15 AM - 11:45 AM
Room 243-245, Convention Center

☆ **Presentation Targeting the PTGES3-AR axis in advanced prostate cancer** 10:25 AM - 10:40 AM
Luke A. Gilbert UCSF Helen Diller Family Comp. Cancer Center, San Francisco, CA

☆ **Session ADT10 Peptide Interaction Inhibitors in Cancer Therapeutics** 12:30 PM - 2:00 PM
Room 217-219, Convention Center

☆ **Presentation Inhibiting and stabilizing protein-protein interactions to block cancer signals** 12:35 PM - 12:55 PM
Michelle R. Arkin University of California, San Francisco, South San Francisco, CA

☆ **Session SY20 KRAS Anniversary Session: Novel Mechanisms for Targeting KRAS**
Hall B-C, Convention Center

☆ **Presentation How Ras proteins cause cancer** 12:54 PM - 1:11 PM
Frank McCormick UCSF Helen Diller Family Comprehensive Cancer Ctr., San Francisco, CA

☆ **Presentation Discovering and deploying chemical strategies to drug KRAS: The formerly undruggable oncogene** 1:11 PM - 1:28 PM
Kevan Michael Shokat University of California San Francisco, San Francisco, CA

☆ **Session PO.PS01.01 Genetic and Environmental Cancer Risk Factors** 1:30 PM - 5:00 PM
Section 2

☆ **Presentation 1441 / 8 Genetic determinants of PSA levels improve prostate cancer screening** 1:30 PM - 5:00 PM
Linda Kachuri, Rebecca E. Graff, Sonja I. Berndt, Mitchell Machiela, Neal D. Freedman, Stephen J. Chanock, John P. Shelley, Kerry Schaffer, Jonathan D. Masley, Phyllis J. Goodman, Cathie Till, Ian Thompson, Robert J. Klein, Stephen K. Van Den Eeden, Thomas J. Hoffmann, John S. Witte. University of California San Francisco, San Francisco, CA, National Cancer Institute, Bethesda, MD, Vanderbilt University Medical Center, Nashville, TN, Fred Hutchinson Cancer Research Center, Seattle, WA, CHRISTUS Health, San Antonio, TX, Icahn School of Medicine at Mount Sinai, New York, NY, Kaiser Permanente Northern California, Oakland, CA, Stanford University, Stanford, CA

☆ **Presentation 1446 / 13 Genetic risk factors for the development of multiple primary cancers** 1:30 PM - 5:00 PM
Jovia L. Nierenberg, Linda Kachuri, Taylor B. Cavazos, Rebecca E. Graff, Thomas J. Hoffmann, Jie Zhang, Stacey Alexeeff, Laurel Habel, Douglas Corley, Stephen Van Den Eeden, Elad Ziv, Lori C. Sakoda, John S. Witte. University of California San Francisco, San Francisco, CA, University of California San Francisco, San Francisco, CA, Kaiser Permanente Northern California, Oakland, CA, University of California San Francisco, San Francisco, CA, Stanford University, Stanford, CA

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MONDAY, April 11th (cont).

☆ **Session MS.CL11.02 Biomarkers 2**

2:30 PM - 4:30 PM

La Nouvelle Orleans A-B, Convention Center

☆ **Presentation 2145 Genomic and transcriptomic analyses related to the clinical efficacy of first-line nivolumab in advanced hepatocellular carcinoma from the phase 3 CheckMate 459 trial**

4:05 PM - 4:20 PM

Jaclyn Neely, Jin Yao, Masatoshi Kudo, Richard S. Finn, Bruno Sangro, Ignacio Melero, Anthony El-Khoueiry, Marina Tschalka, Damir Begic, Ashwin Sama, Parul Doshi, Thomas Yau, Robin Kate Kelley. Bristol Myers Squibb, Princeton, NJ, Kindai University Faculty of Medicine, Osaka, Japan, Geffen School of Medicine at University of California, Los Angeles, CA, Clinica Universidad de Navarra-IDISNA and CIBEREHD, Pamplona, Spain, Clinica Universidad de Navarra and CIBERONC, Pamplona, Spain, University of Southern California, Norris Comprehensive Cancer Center, Los Angeles, CA, University of Hong Kong, Hong Kong, China, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

☆ **Session MS.TB01.01 Next-Gen Genetically Engineered Mouse Models: Dedicated to the Memory of Beatrice Mintz**

2:30 PM - 4:30 PM

Room 278-282, Convention Center

☆ **Presentation 2198 The impact of carcinogens, obesity, and chronic inflammatory processes on mutational signatures and cancer risk in mouse tumor models**

3:35 PM - 3:50 PM

Yun Rose Li, Kyle Halliwell, Eve Kandyba, Reyno Delrosario, Quan Tran, Nora Bayani, Di Wu, Olga Mirzoeva, Melissa McCreery Reeves, Mishu Islam, Laura Riva, Eric Bergstrom, John Digiovanni, Ludmil Alexandrov, Allan Balmain. City of Hope Comprehensive Cancer Center, Duarte, CA, University of California San Francisco, San Francisco, CA, University of California, San Diego, La Jolla, CA, Wellcome Sanger Institute, Hinxton, Cambridge, United Kingdom, University of California, San Diego, La Jolla, CA, College of Pharmacy, The University of Texas at Austin, Austin, TX, University of California San Francisco, San Francisco, CA

☆ **Session TM02 Cancer Immunology Working Group (CIMM) Town Hall Meeting and Networking Reception**

6:30 PM - 8:30 PM

Grand Ballroom C, Hilton New Orleans Riverside

☆ **Presentation Immune Archetypes**

7:10 PM - 7:15 PM

Matthew F. Krummel. University of California San Francisco, San Francisco, CA

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TUESDAY, April 12

☆ **Session PO.PR02.01 Risk Assessment, Biomarkers, Early Detection, and Screening** 9:00 AM - 12:30 PM

Section 2

☆ **Presentation 2226 / 8 Using functional biomarkers to accurately predict advanced neoplasia in pancreatic cystic lesions** 9:00 AM - 12:30 PM

Francesco Caiazzo, Andre Lourenco, Patricia Conroy, Thomas Hoffmann, Sam L. Ivry, Tyler York, Gina Zhu, Audrey Mustoe, Anthony J. O'Donoghue, Charles S. Craik, Kimberly Kirkwood. UCSF, San Francisco, CA, UCSF, San Francisco, CA, UCSF, San Francisco, CA, UCSD, San Diego, CA

☆ **Session PO.MCB06.01 Cell Cycle Control and Cell Cycle Regulators as Therapeutic Targets** 9:00 AM - 12:30 PM

Section 5

☆ **Presentation 2302 / 6 The pan-cancer regulator of the mutant TERT promoter and a new model of the GABP-TERT axis** 9:00 AM - 12:30 PM

Nicholas O. Stevens, Carter Barger, Olivia Lenza, Chibo Hong, Katarzyna Soczek, Samuel H. Wu, Andrew M. McKinney, Abigail Suwala, Jennifer A. Doudna, Joseph F. Costello. The University of California, San Francisco, San Francisco, CA, University of California, Berkeley, Berkeley, CA

☆ **Session LBPO.CL02 Late-Breaking Research: Clinical Research 2** 9:00 AM - 12:30 PM

Section 17

☆ **Presentation LB111 / 5 Comparison of the predictive and prognostic significance of circulating tumor DNA in patients with high risk HER2-negative breast cancer receiving neoadjuvant chemotherapy** 9:00 AM - 12:30 PM

Mark Jesus Mendoza Magbanua, Lamorna Brown Swigart, Derrick Renner, Svetlana Shchegrova, Gillian L. Hirst, Christina Yau, Denise M. Wolf, Hsin-Ta Wu, Ekaterina Kalashnikova, Amy L. Delson, A. Jo Chien, Debu Tripathy, Smita Asare, Raheleh Salari, Angel Rodriguez, Bernhard Zimmermann, Himanshu Sethi, Alexey Aleshin, Paul Billings, Rita Nanda, Hope S. Rugo, Laura J. Esserman, Minetta C. Liu, Angela DeMichele, Laura Van 't Veer. University of California San Francisco, San Francisco, CA, Natera, Inc., Austin, TX, Quantum Leap Health Care Collaborative, San Francisco, CA, University of Chicago, Chicago, IL, Mayo Clinic, Rochester, MN, University of Pennsylvania, Philadelphia, PA

☆ **Session SY19 Myeloid Cell Control of Therapeutic Antitumor Immunity** 10:15 AM - 11:45 AM

Room 243-245, Convention Center

☆ **Presentation Next-generation macrophage and T cell activation reporters to define functional immune states in solid tumors** 11:26 AM - 11:41 AM

Arja Ray, Kenneth Hu, Bushra Samad, Grace Hernandez, Matthew Krummel. University of California San Francisco, San Francisco, CA

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TUESDAY, April 12 (cont.)

<p>☆ Session SY23 Extracellular Matrix Remodeling in Cancer</p> <p>La Nouvelle Orleans C, Convention Center</p>	<p>12:30 PM - 2:00 PM</p>
<p>☆ Presentation Targeting the reciprocal interplay between inflammation, fibrosis, and pro-tumor immunity</p> <p><u>Valerie M. Weaver</u>, UCSF Medical Center, San Francisco, CA</p>	<p>12:35 PM - 12:53 PM</p>
<p>☆ Session APS01 Where You Live Matters: From Biological to Social Determinants of Cancer Outcomes</p> <p>Great Hall BC, Convention Center</p>	<p>12:30 PM - 2:00 PM</p>
<p>☆ Presentation Structural racism and prostate cancer among African American men: The RESPOND Study</p> <p><u>Scarlett L. Gomez</u>, UCSF - University of California San Francisco, San Francisco, CA</p>	<p>1:38 PM - 1:56 PM</p>
<p>☆ Session PO.TB06.02 Stromal Tumor Interactions</p> <p>Section 13</p>	<p>1:30 PM - 5:00 PM</p>
<p>☆ Presentation 3185 / 12 Treatment with an engineered decoy receptor targeting the CLCF1-CNTFR signaling axis prevents oncogenesis in Kras mutant lung adenocarcinoma via both cell autonomous and non-cell autonomous mechanisms</p> <p><u>Kieren D. Marini</u>, Emma C. Champion, Jennifer R. Cochrane, E. Alejandro Sweet-Cordero, UCSF, San Francisco, CA, Stanford University, Palo Alto, CA</p>	<p>1:30 PM - 5:00 PM</p>
<p>☆ Session LBPO.PSPR01 Late-Breaking Research: Population Sciences / Prevention, Early Detection, and Interception</p> <p>Section 17</p>	<p>1:30 PM - 5:00 PM</p>
<p>☆ Presentation LB159 / 3 Neighborhood obesogenic environment and risk of prostate cancer: The Multiethnic Cohort</p> <p><u>Mindy C. Hebert-DeRouen</u>, Li Tao, Salma Shariff-Marco, Juan Yan, Yurii B. Shvetsov, Song-Yi Park, Cheryl L. Albright, Kristine Monroe, Loic Le Marchand, Lynne Wilkens, Scarlett L. Gomez, Iona Cheng, University of California, San Francisco, San Francisco, CA, University of Hawaii Cancer Center, Honolulu, HI, University of Hawaii School of Nursing and Dental Hygiene, Honolulu, HI, University of Southern California, Los Angeles, CA, University of Hawaii Cancer Center, Honolulu, HI</p>	<p>1:30 PM - 5:00 PM</p>

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TUESDAY, April 12 (cont.)

☆ **Session MS.P501.01 Cancer Health Disparities** 2:30 PM - 4:30 PM
Room 295-296, Convention Center

☆ **Presentation 3631 Transcriptome-wide association study identifies novel genes associated with breast cancer susceptibility in Latinas** 2:50 PM - 3:05 PM

Pooja Middha Kapoor, Angel C. Y. Mak, Linda Kachuri, Donglei Hu, Scott Huntsman, Lawrence H. Kushi, Christopher Haiman, Esther M. John, Gabriela Torres-Mejia, Esteban G. Burchard, Susan L. Neuhausen, Laura Fejerman, Elad Ziv. University of California San Francisco, San Francisco, CA, University of California San Francisco, San Francisco, CA, Kaiser Permanente Northern California, Oakland, CA, University of Southern California, Los Angeles, CA, Stanford University School of Medicine, Stanford, CA, National Institute of Public Health, Cuernavaca, Mexico, University of California San Francisco, San Francisco, CA, Beckman Research Institute of City of Hope, Duarte, CA, University of California Davis, Davis, CA, University of California San Francisco, San Francisco, CA

☆ **Session MS.MCB05.01 Cancer Epigenetics: From Nucleotides to 3D Genome Structure** 2:30 PM - 4:15 PM
Room 220-222, Convention Center

☆ **Presentation 3621 3D spatial sampling and integrated omics reveal sources and patterning of intratumoral heterogeneity in glioblastoma** 3:35 PM - 3:50 PM

Radhika Mathur, Qixuan Wang, Patrick Schupp, Ana Nikolic, Takafumi Yamaguchi, Stephanie Hiltz, Chibo Hong, Ivan Smirnov, Marisa LaFontaine, Joanna Phillips, Susan Chang, Yan Li, Janine Lupo, Paul Boutros, Marco Gallo, Michael Oldham, Feng Yue, Joseph Costello. University of California San Francisco, San Francisco, CA, Northwestern University, Evanston, IL, University of Calgary, Calgary, AB, Canada, University of California Los Angeles, Los Angeles, CA, Northwestern University, Evanston, IL

☆ **Session LE08 AACR Award for Outstanding Achievement in Chemistry in Cancer Research Lecture** 3:00 PM - 3:45 PM
Great Hall BC, Convention Center

☆ **Presentation Invited Speaker** 3:05 PM - 3:45 PM

Kevan Michael Shokat. University of California San Francisco, San Francisco, CA

☆ **Session TM07 Radiation Science and Medicine Working Group (RSM) Town Hall Meeting and Networking Reception** 6:30 PM - 8:30 PM
Grand Ballroom D, Hilton New Orleans Riverside

☆ **Presentation Chairperson** 6:30 PM - 8:30 PM

Mary Helen Barcellos-Hoff. UCSF, San Francisco, CA

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WEDNESDAY, April 13

☆ **Session PO.IM02.05 Combination Immunotherapies 1** 9:00 AM - 12:30 PM

Section 36

☆ **Presentation 4170 / 6 Integrative transcriptomic and proteomic analysis reveals immunogenic and spatially-conserved HLA-binding neoantigen targets derived from tumor-specific alternative splicing events** 9:00 AM - 12:30 PM

Darwin Kwok, Takahide Nejo, Aidan Du, Maggie Colton, James Woo, Joseph Costello, Hideho Okada. UCSF, San Francisco, CA

☆ **Session PO.TB06.04 Gene Expression and the Microenvironment** 9:00 AM - 12:30 PM

Section 12

☆ **Presentation 3808 / 8 Spatially resolved transcriptomics of cellular architecture in EGFR-mutated lung cancer** 9:00 AM - 12:30 PM

Daniel L. Kerr, Wei Wu, Whitney Tamaki, Anatoly Urisman, Yu-Ting Chou, Philippe Gui, David M. Jablons, Trevor G. Bivona, Collin M. Blakely. University of California, San Francisco, San Francisco, CA

☆ **Session PO.TB10.03 Clonal Evolution** 9:00 AM - 12:30 PM

Section 11

☆ **Presentation 3797 / 10 3D whole tumor analysis of the *TERT* promoter mutation in gliomas** 9:00 AM - 12:30 PM

Christina Leann Appia, Abigail K. Suwala, Stephanie Hiltz, Radhika Mathur, Ivan V. Smirnov, Chibo Hong, Nicholas O. Stevers, Anny Shai, Albert Wang, Mitchel S. Berger, Susan M. Chang, Joanna J. Phillips, Joseph F. Costello. University of California San Francisco, San Francisco, CA, University of Heidelberg, Heidelberg, Germany

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