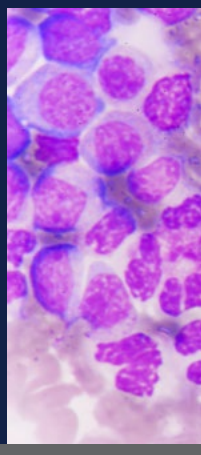
UCSF

UCSF HELEN DILLER FAMILY COMPREHENSIVE CANCER CENTER

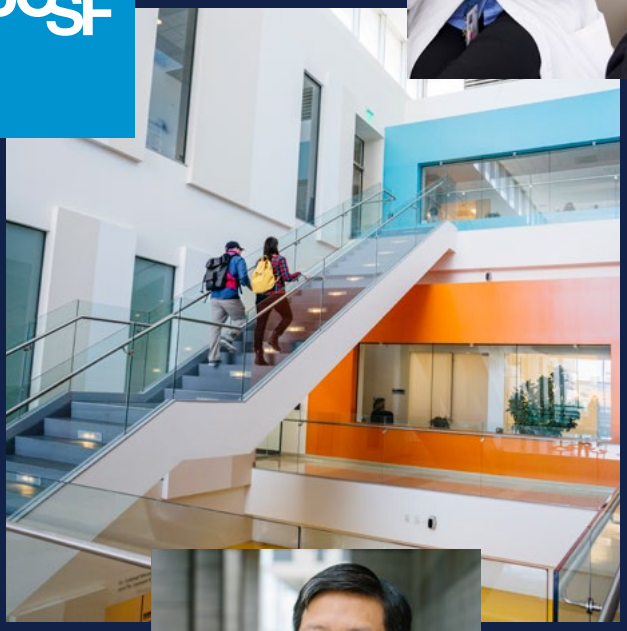
American Association for Cancer Research Annual Meeting

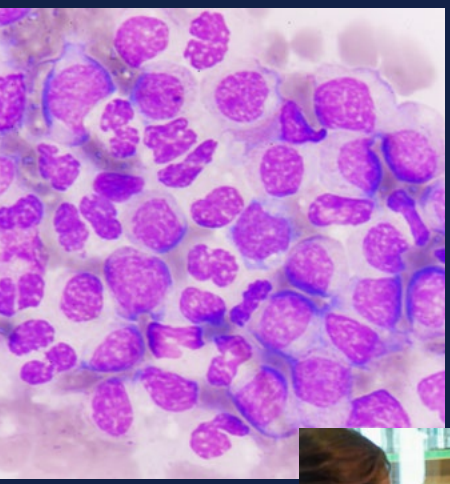
March 29 – April 3, 2019
Atlanta, GA
UCSF Presentation Brochure



UCSF Helen Diller Family Comprehensive Cancer Center

UCSF





Alan Ashworth, PhD, FRS

President,
UCSF Helen Diller
Family Comprehensive
Cancer Center

Senior Vice President
for Cancer Services,
UCSF Health

Professor of Medicine,
Division of
Hematology/Oncology,
Department of Medicine

EXCEPTIONAL PEOPLE EXTRAORDINARY SCIENCE

For the past four years, it has been my privilege to work with UCSF's team of exceptional cancer scientists who are helping to transform cancer into a manageable disease, and hopefully one day, a curable disease. Among our many programs, UCSF faculty are driving efforts to overcome drug resistance, a key limitation of targeted therapy; developing drugs against previously undruggable proteins; and making significant advances in cryo-electron microscopy that is allowing scientists to visualize a broad spectrum of proteins at resolutions approaching crystal structure resolutions. We are leading the way on the next generation of cellular therapies, with novel approaches to addressing specificity and efficacy, while minimizing side effects. Also, we've expanded our state-of-the-art cancer imaging program to more rapidly assess disease progression and treatment response, creating time to move patients to other therapies when first-line therapies fail.

All of us are working in an exciting new era of collaboration. We recognize that bringing advancements to patients is best accomplished by working in partnership with the broader life science industry. As an NCI-designated comprehensive cancer center, UCSF is recognized for our outstanding science, extensive resources, depth and breadth of our research in basic, clinical, and population sciences, as well as cutting edge research that bridges these scientific areas. UCSF is home to many of the world's finest oncology clinicians and scientists who understand the power of partnerships. This searchable abstract book of UCSF research presented at AACR is a resource for potential partners interested in identifying world-class faculty engaged in basic science and clinical oncology research.

I invite you to learn more about our work and expertise by reaching out to our faculty during this meeting. If you have additional questions or would like assistance with your outreach, please contact the Director of Strategic Alliances for the Cancer Center: Cammie Edwards (cammie.edwards@ucsf.edu).

I wish you a very productive meeting, and we look forward to future discussions and collaborations.

Alan Ashworth, PhD, FRS

UCSF Medical Center is ranked #1 in California for cancer care

OPENING SUMMER 2019

UCSF Bakar Precision Cancer Medicine Building

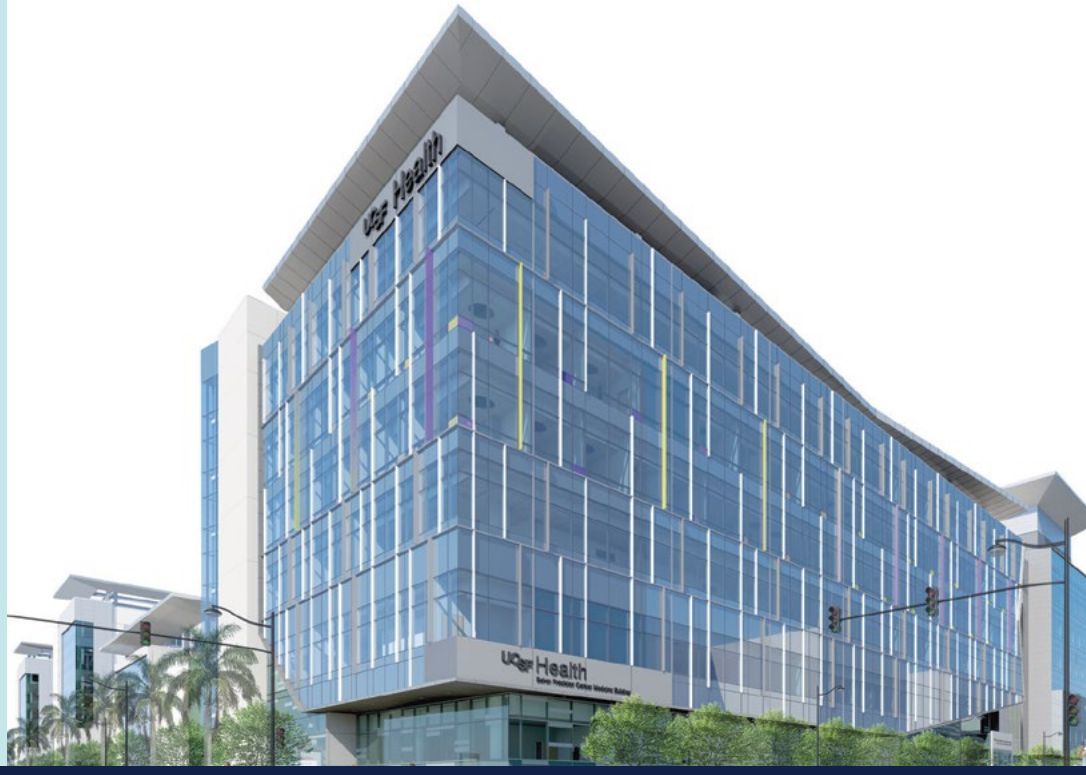
By bringing together researchers, clinicians and supportive care in one building, the UCSF Bakar Precision Cancer Medicine Building sets a new standard in the Bay Area for cancer care and research.

"This new center represents an unprecedented advance for people with cancer, inspired by two ideals: Bring the latest and most personalized treatments to patients more rapidly than ever before, and ensure our patients are front and center in everything we do."

Alan Ashworth, PhD, FRS
President, UCSF Helen Diller Family Comprehensive Cancer Center
Senior Vice President, Cancer Services, UCSF Health

PROGRAMS AT THE NEW FACILITY INCLUDE:

- Breast Care Center
- Cancer Acute Care
- Cancer Genetics and Prevention
- Cancer Nutrition
- Dental Oncology
- Early Phase Investigational Therapeutics
- Gastrointestinal (GI) Medical and Surgical Oncology
- Genitourinary (GU) Medical Oncology
- Gynecologic Oncology
- Head and Neck Medical Oncology and Surgery
- Hereditary Cancer Program
- Psycho-Oncology
- Sarcoma Medical Oncology
- Symptom Management Service
- Urologic Surgical Oncology



CANCER REFERRALS

Phone: 877-UCSF-CAN (877-827-3226)

Fax: 415-514-8253

UCSF Bakar Precision Cancer Medicine Building
1825 4th St. | San Francisco, CA 94158
cancer.ucsf.edu/pcmb

UCSF Helen Diller Family Comprehensive Cancer Center

OUR SUCCESS IS DRIVEN BY OUR FACULTY

HDFCCC MEMBERSHIP: 455 MEMBERS & AFFILIATE MEMBERS

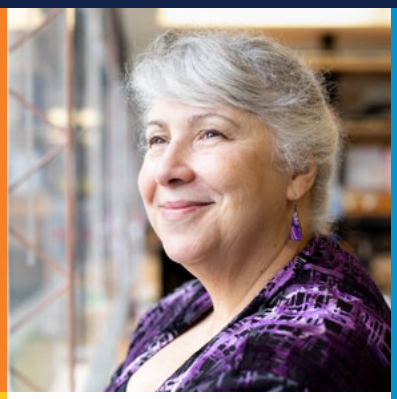
2 Nobel Laureates
3 Albert Lasker Award winners
8 Howard Hughes Medical Investigators
16 Members of the National Academy of Sciences
20 Members of the Institute of Medicine
23 Fellows of the American Academy of Arts and Sciences
6 Fellows of the Royal Society

NCI
Designated Comprehensive Cancer Center

IN PURSUIT OF EXCELLENCE: RECENT AWARDS AND HONORS

(Click on link to read story)

JAN 23, 2019



Thea Tlsty, PhD, Wins CRUK 'Grand Challenge' Competition: $26 Million Project Will Probe Role of Inflammation in Cancer

http://cancer.ucsf.edu/news/2019/01/23/26-million-grand-challenge-project-will-probe-role-of-inflammation-in-cancer.9360

FEB 12, 2019

Elad Ziv, MD, Niharika Dixit, MD, and Team Receive California Initiative to Advance Precision Medicine (CIAPM) Award to Improve Hereditary Breast Cancer Care in Latinas

http://opr.ca.gov/news/2019/02-12.html

FEB 28, 2019

AACR Honors Jeffrey Bluestone, PhD, With 2019 AACR-Irving Weinstein Foundation Distinguished Lectureship

https://www.aacr.org/Newsroom/Pages/News-Release-Detail.aspx?ItemID=1275

FEB 27, 2019

UCSF Is Top Public Recipient of NIH Funds, Pushing Unbroken Streak

https://www.ucsf.edu/news/2019/02/413396/ucsf-top-public-recipient-nih-funds-pushing-unbroken-streak

DRIVING SCIENTIFIC INSIGHTS FORWARD: RECENT DISCOVERIES

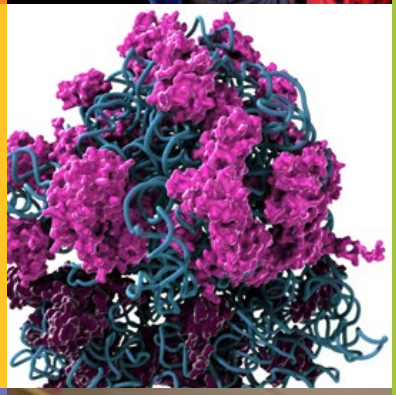
(Click on link to read story)

JAN 9, 2019

Divide and Conquer: UCSF Cancer Team Finds Promise in Precision Medicine Approach to Osteosarcoma

http://cancer.ucsf.edu/news/2019/01/09/divide-and-conquer-ucsf-cancer-team-finds-promise-in-precision-medicine-approach-to-osteosarcoma.9346

JAN 14, 2019



Drug Hobbles Deadly Liver Cancer By Stifling Protein Production

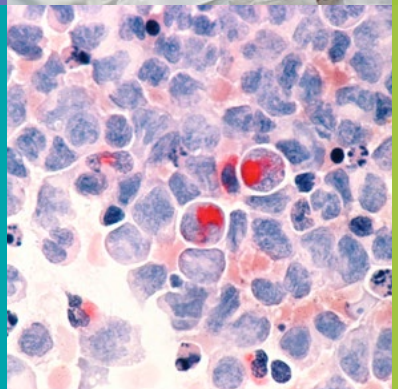
http://cancer.ucsf.edu/news/2019/01/14/drug-hobbles-deadly-liver-cancer-by-stifling-protein-production.9351

JAN 24, 2019

Common Pain Reliever Can Improve Survival in Head and Neck Cancer

http://cancer.ucsf.edu/news/2019/01/24/common-pain-reliever-can-improve-survival-in-head-and-neck-cancer.9361

FEB 11, 2019



UCSF's Novel Approach to a Therapeutic Cancer Vaccine May Provide a New Option for Patients Relapsing with AML

http://cancer.ucsf.edu/news/2019/02/11/ucsfs-novel-approach-to-a-therapeutic-cancer-vaccine-may-provide-a-new-option-for-patients-relapsing-with-aml.9380

TRANSLATING LABORATORY DISCOVERIES INTO IMPROVED PATIENT CARE

Whether it is advancing a new vaccine based immunotherapy, developing a new diagnostic test to distinguish benign moles from malignant melanoma, or pioneering new adaptive clinical trial designs, UCSF's success in translating laboratory discoveries into improved patient care comes from its faculty and culture of exploration and collaboration. With over 400 faculty relentlessly pursuing oncology research and clinical practice, we continue to make significant strides in understanding the biology of disease and improving patient outcomes with advanced clinical care.

WORKING TOGETHER ADVANCING THE UNDERSTANDING AND TREATMENT OF CANCER

NCI - Supported Research Programs (click on link to get more information)

- Breast Oncology
- Cancer Control
- Cancer Genetics
- Cancer Immunology
- Experimental Therapeutics
- Hematopoietic Malignancies
- Neurologic Oncology
- Pediatric Malignancies
- Prostate Cancer
- Tobacco Control

Additional Cancer Research (click on link to get more information)

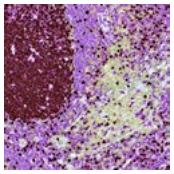
- Cancer Risk
- Gastrointestinal Oncology
- Gynecologic Oncology
- Melanoma
- Multiple Myeloma
- Pancreas Cancer
- Pediatric Brain Tumor Research
- Thoracic Oncology

Key Initiatives (click on link to get more information)

- Cancer Immunotherapy
- Center for BRCA Research
- Global Cancer
- Molecular Oncology
- Precision Cancer Medicine Building
- The San Francisco Cancer Initiative (SF CAN)
- UC Cancer Centers Consortium

CORE CAPABILITIES SUPPORTING OUR PROGRAMS

(Click on link to read story)



Biorepository and Tissue Biomarker Technology

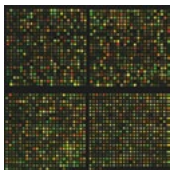
Provides optimal acquisition, processing, and storage of human tissue biospecimens, as well as state-of-the-art biomarker histologic detection and/or image analyses for both human and mouse tissue biospecimens.

Biostatistics

Provides statistical expertise and collaboration to the UCSF cancer research community on all phases of basic science, translational, clinical, epidemiological, and prevention research.

Cancer Imaging Research

Provides technical capabilities and scientific expertise for integrating cutting-edge, multi-modality imaging into basic, translational, and clinical research.

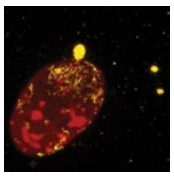


Computational Biology and Informatics

Provides computational biology and computational infrastructure support to the UCSF cancer research community.

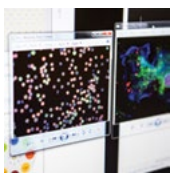
Laboratory for Cell Analysis

Provides cytometric, microscopic, and genomic support and services for the UCSF cancer research community.



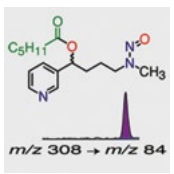
Preclinical Therapeutics

Offers a complete set of preclinical services and in vivo imaging devices for cancer investigators.



Small Molecule Discovery

Collaborates with academics, government labs, and pharmaceutical companies to develop unique chemical probes and drug leads that address unmet medical needs in cancer.



Tobacco Biomarkers

Serves as an analytical chemistry resource for the UCSF tobacco control and cancer research community.

FRIDAY | MARCH 29, 2019

Autophagy and secretion in cancer

Authors*: **Jayanta Debnath**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/755
Presentation Date/Time: March 29, 2019, 5:15 PM - 5:40 PM
Location: Room A311 - Georgia World CC
Presentation: Educational Session

Debnath Research Interests: My laboratory focuses how autophagy contributes to epithelial cell survival and cancer using both in vitro and in vivo models. Currently, our three main goals are: 1) determine the role of autophagy in epithelial cell survival and oncogenic transformation; 2) delineate the role of autophagy in tumor metastasis in vivo; and 3) dissect the biological and biochemical functions of the molecules that control autophagy (called ATGs) to ultimately exploit this process for therapeutic benefit.

http://pathology.ucsf.edu/debnath/

Juvenile myelomonocytic leukemia: Learning from patients in a world without walls

Authors*: **Mignon Loh**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7289
Presentation Date/Time: March 29, 2019, 5:45 PM - 6:10 PM
Location: Room A302 - Georgia World CC
Presentation: Educational Session

Loh Research Interests: The Loh lab has focused on translating genomic and biochemical discoveries in juvenile myelomonocytic (JMML) and acute lymphoblastic leukemia (ALL) into assays and therapies that can be incorporated into clinical trials. Their work in JMML has largely focused on dissecting the genomic landscape of JMML, including descriptions of PTPN11 and CBL mutations and the discovery of CBL as a new familial tumor suppressor gene. From these discoveries, Dr. Loh established JMML CLIA molecular diagnostic testing, which is now utilized as standard testing for patients suspected of having JMML. Dr. Loh is currently Chair of the Children's Oncology Group (COG) ALL committee starting in April 2015 and responsible for supervising and implementing the next generation of national ALL trials for children, adolescents, and young adults.

http://cancer.ucsf.edu/people/profiles/loh_mignon.3407

SATURDAY | MARCH 30, 2019

Mechanism of anti-tumor action of oncolytic vaccinia viruses

Authors*: **Donald M. MacDonald**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/780
Presentation Date/Time: March 30, 2019, 11:35 AM - 12:05 PM
Location: Georgia Ballrm 3- Bldg C- GWCC
Presentation: Educational Session

Proteomics based approaches to studying cancer lysosome

Authors*: **Rushika M. Perera**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2014
Presentation Date/Time: March 30, 2019, 2:30 PM - 2:55 PM
Location: Georgia Ballrm 3- Bldg C- GWCC
Presentation: Methods Workshop

Ex vivo live imaging of the lung metastatic niche in mice to enable immuno-oncology drug discovery

Authors*: **Vicki Plaks**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/8174
Presentation Date/Time: March 30, 2019, 3:15 PM - 3:40 PM
Location: Georgia Ballrm 3- Bldg C- GWCC
Presentation: Methods Workshop

*UCSF authors in bold

Imaging tumor metabolism using hyperpolarized 13C-magnetic resonance spectroscopy

Authors*: **Pavithra Viswanath**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/10117
Presentation Date/Time: March 30, 2019, 4:45 PM - 5:10 PM
Location: Georgia Ballrm 3- Bldg C- GWCC
Presentation: Methods Workshop

Introduction to pediatric cancer somatic genomics and the UCSF experience in clinical genomics of pediatric cancer

Authors*: **Alejandro Sweet-Cordero**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/738
Presentation Date/Time: March 30, 2019, 3:15 PM - 3:40 PM
Location: Room A313 - Georgia World CC
Presentation: Educational Session

Sweet-Cordero Research Interests: My lab works to identify novel therapeutic approaches for cancer that target the genetic mutations & altered signaling networks specific to cancer cells. We use functional genomics applied to mouse & human systems to understand transcriptional networks regulating the outcome of specific oncogenic mutations & to understand how cancers become treatment resistant. We have 2 primary disease interests: lung cancer & pediatric sarcomas. Our lung cancer work focuses on elucidating the tissue-specific oncogenic effects of KRAS in lung cancer. We have identified synthetic vulnerabilities in the Ras pathway & are particularly interested in understanding how other genetic mutations cooperate with Ras. We also study intra-tumor heterogeneity & the possible role of stem-like cells in lung pathogenesis. Our lab has identified a novel potential therapy for lung cancer based on blocking fibroblast-epithelial cell signaling. Our pediatric cancer work is focused on using genomic approaches to identify novel oncogenic drivers in osteosarcoma & Ewing sarcoma. We have established patient-derived xenograft models for these & other pediatric solid tumors.

https://cancer.ucsf.edu/people/profiles/sweetcordero_alejandro.8106

SUNDAY | MARCH 31, 2019

Chemical methods to decipher the role of individual kinases and their cellular signaling networks

Authors*: **Kevan Michael Shokat**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/8051
Presentation Date/Time: March 31, 2019, 7:00 AM - 8:00 AM
Location: Room A315 - Georgia World CC
Presentation: Meet-the-Expert Session

Shokat Research Interests: My lab focuses on discovery of new chemical tools to decipher cellular signaling networks, particularly protein kinases and GTPases. Analysis of signal transduction pathways is challenging using traditional tools. Biochemical approaches have limited utility since signaling networks span from the cell surface to the nucleus, confounding reconstitution efforts. Genetic approaches allow specific perturbations, yet can be confounded by the emergent properties of signaling cascades. Chemical and pharmacological approaches enable rapid, reversible & graded inactivation of single components, but highly selective chemical probes are difficult to develop. My lab has solved this problem for protein kinases with a strategy based on a combination of protein engineering and organic synthesis.

http://shokatlab.ucsf.edu

Therapeutic implications of DNA repair defects in cancer

Authors*: **Alan Ashworth**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/18
Presentation Date/Time: March 31, 2019, 10:20 AM - 10:45 AM
Location: Hall A - Convention Center
Presentation: Plenary Session

*UCSF authors in bold

Analysis of immune cell infiltrates as predictors of response to the checkpoint inhibitor pembrolizumab in the neoadjuvant I-SPY 2 TRIAL

Authors*: **Michael J. Campbell**, **Christina Yau**, **Jennifer Bolen**, **Scott Vandenberg**, Clifford Hoyt, **Lamorna Brown-Swigart**, **Gillian Hirst**, Rita Nanda, Minetta Liu, Smita Asare, **Laura van 't Veer**, Douglas Yee, Angie DeMichele, Don Berry, **Laura Esserman**

Abstract #: CT003
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9823
Presentation Date/Time: March 31, 2019, 1:55 PM - 2:15 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Plenary Session

Esserman Research Interests: Dr. Esserman, surgeon & breast cancer oncology specialist, is the Carol Franc Buck Breast Care Center Director and co-leads the Breast Oncology Program. Her research is on improving healthcare value through integrating translational science, clinical informatics, systems re-engineering & clinical care delivery. In 2005, she received the NCI SPORE Investigator of the Year Award. In 2016 she received the Arbuckle Award from Stanford Graduate School of Business for Excellence in Management & was named to TIME's 100 most influential people list. She is PI of the I-SPY TRIAL program, now a model for translational research & innovation in clinical trial design. She launched the Athena Breast Health Network to follow women from screening through treatment & outcomes, incorporating the latest in molecular testing & web-based tools. Athena just launched the WISDOM study to compare personalized vs annual breast cancer screening in 100,000 women and to predict who gets what kind of cancer.

http://profiles.ucsf.edu/laura.esserman

A Phase Ib study of CD40 agonistic monoclonal antibody APX005M together with gemcitabine (Gem) and nab-paclitaxel (NP) with or without nivolumab (Nivo) in untreated metastatic ductal pancreatic adenocarcinoma (PDAC) patients

Authors*: Mark H. O'Hara, Eileen M. O'Reilly, Mick Rosemarie, Gauri Varadhachary, Zev A. Wainberg, **Andrew Ko**, George A. Fisher, Jr., Osama Rahma, Jaclyn P. Lyman, Christopher R. Cabanski, Erica L. Carpenter, Travis Hollmann, Pier Federico Gherardini, Lacey Kitch, Cheryl Selinsky, Theresa LaVallee, Ovid C. Trifan, Ute Dugan, Vanessa M. Hubbard-Lucey, Robert H. Vonderheide

Abstract #: CT004
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9824
Presentation Date/Time: March 31, 2019, 2:25 PM - 2:45 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Plenary Session

Ko Research Interests: My primary clinical and research interests focus on gastrointestinal malignancies, with a particular emphasis on pancreatic and gastroesophageal cancers. I have received research funding from the National Cancer Institute, a career development award from the American Society of Clinical Oncology (ASCO), and have partnered with multiple industry collaborators in developing and evaluating a variety of new therapeutic agents ranging from novel cytotoxics to molecularly targeted agents to immunotherapies. My interests also include identifying individual patient/tumor characteristics that influence prognosis and response to specific therapies, including both tissue- and blood-based biomarkers. I have served on the scientific program committee, grants committee, and specialty editorial board for the American Society of Clinical Oncology (ASCO), am currently an Associate Editor for the Journal of Clinical Oncology, and serve as a member of NCI's Pancreatic Cancer Task Force and the NCCN Pancreatic Cancer guidelines committee.

http://cancer.ucsf.edu/people/profiles/ko_andrew.3444

*UCSF authors in bold

Breast cancer health disparities: Past, present, and future

Authors*: **Laura Fejerman**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1784
Presentation Date/Time: March 31, 2019, 1:00 PM - 1:20 PM
Location: Room B401 - Georgia World CC
Presentation: Advances in the Science of Cancer Health Disparities

Fejerman Research Interests: Dr. Fejerman focuses on the discovery of genetic and non-genetic factors that contribute to breast cancer risk and prognosis in Latinas. Her past work established a relationship between genetic ancestry and breast cancer risk, where higher European ancestry in U.S. and Mexican Latinas was associated with an increased risk. Her subsequent research has built upon this observation, exploring genetic variants, through admixture mapping and genome-wide association approaches, as well as the possible environmental and lifestyle related factors, and ancestry-gene interactions. Recent work explores disparities in breast cancer prognosis by genetic ancestry in Latinas and its potential causes.

http://fejerman.ucsf.edu

Understanding transcriptomic profiles that might explain discordance of the PAM50 and immunohistochemistry classification methods in luminal tumors from Colombian women

Authors*: Silvia J. Serrano-Gomez, Maria Carolina Sanabria-Salas, Jone Garay, Juan C. Mejia, Oscar Garcia, Jovanny Zabaleta, **Laura Fejerman**

Abstract #: 460
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1441
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 19
Presentation: Poster Session

Fejerman Research Interests: Dr. Fejerman focuses on the discovery of genetic and non-genetic factors that contribute to breast cancer risk and prognosis in Latinas. Her past work established a relationship between genetic ancestry and breast cancer risk, where higher European ancestry in U.S. and Mexican Latinas was associated with an increased risk. Her subsequent research has built upon this observation, exploring genetic variants, through admixture mapping and genome-wide association approaches, as well as the possible environmental and lifestyle related factors, and ancestry-gene interactions. Recent work explores disparities in breast cancer prognosis by genetic ancestry in Latinas and its potential causes.

http://fejerman.ucsf.edu

*UCSF authors in bold

Tumor-conditional anti-CTLA-4 uncouples anti-tumor efficacy from immunotherapy-related toxicity

Authors*: **Steven C. Pai**, Donald M. Simons, Xiaoqing Lu, Wendy Ritacco, **Michael Evans**, Gillian Kingsbury, **Lawrence Fong**

Abstract #: 550
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2401
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 23
Presentation: Poster Session

Fong Research Interests: My lab focuses on how the immune system interacts with cancer as well as exploring tumor immunotherapies in mouse models and in patients. Our primary focus is in immunotherapy of solid malignancies. We investigate how immunotherapies such as immune checkpoint inhibitors and cancer vaccines can enhance anti-tumor immunity both systemically and in the tumor microenvironment. Performing neoadjuvant immunotherapy trials, we determine how specific therapies can recruit immune effectors in cancer patients. Moreover, we have studied how clinical responders may differ from clinical non-responders. We are applying unbiased approaches to studying antigen-specific responses that are modulated in these patients and are currently developing biomarkers that may be predictive of clinical efficacy.

http://cancer.ucsf.edu/people/profiles/fong_lawrence.3521

Relationship of serum progesterone and progesterone metabolites with mammographic density

Authors*: Manila Had, Hannah Oh, Sharon Fan, Roni T. Falk, Berta Geller, Pamela Vacek, Donald Weaver, John Shepherd, Jeff Wang, **Bo Fan**, **Amir P. Mahmoudzadeh**, **Serghei Malkov**, Sally Herschorn, Louise A. Brinton, Xia Xu, Mark E. Sherman, Britton Trabert, Gretchen L. Gierach

Abstract #: 588
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1845
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 26
Presentation: Poster Session

*UCSF authors in bold

Circulating progesterone is associated with increased postmenopausal breast cancer risk: B~FIT cohort

Authors*: Britton Trabert, **Doug C. Bauer**, Louise A. Brinton, Diane S. M. Buist, Jane A. Cauley, Cher M. Dallal, Gretchen L. Gierach, Roni T. Falk, **Trisha F. Hue**, James V. Lacey, Jr., Andrea Z. LaCroix, **Jeffrey A. Tice**, Xia Xu.

Abstract #: 589
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1847
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 26
Presentation: Poster Session

Combination of ONC201 with radiation exhibits synergistic efficacy in high grade gliomas and other advanced cancers

Authors*: Rohinton S. Tarapore, Sachin Jhawar, Mark Stein, Andrew Zloza, **Sabine Mueller**, **Jie Zhang**, Francesca Amoroso, Ian Mills, Wolfgang Oster, Joshua Allen

Abstract #: 249
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2966
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 10
Presentation: Poster Session

Mueller Research Interests: The laboratory of Dr. Sabine Mueller focuses on translational research in pediatric neuro-oncology. A key focus is the development and characterization of patient derived xenograft (PDX) models for diffuse intrinsic pontine gliomas (DIPG) and other pediatric high grade gliomas (pHGGs). In particular, the Mueller lab investigates the genomic heterogeneity of DIPGs and other pHGGs. Additionally, they are exploring the utility of liquid biopsies by assessing circulating tumor DNA and correlating this with disease response. Further, the laboratory is exploring central nervous system (CNS) directed delivery strategies, such as convection enhanced delivery (CED) in combination with nanotechnology, in these PDX models. The laboratory has several industry partnerships to test new agents as single agents and in combination therapy strategies with other agents as well as radiation therapy.

http://cancer.ucsf.edu/people/profiles/mueller_sabine.4800

*UCSF authors in bold

Detailed analysis of immune responses induced against patient-specific neoantigens using the ex-vivo induction protocol, NEO-STIM™

Authors*: Divya Lenkala, Jessica Kohler, Brian McCarthy, Michael Nelson, **Rachel DeBarge**, Yvonne Ware, Yuting Huang, Janani Sridar, Yusuf Nasrullah, Dewi Hartjano, Asaf Poran, Sejuti Sengupta, Joost H. van den Berg, Matt Goldstein, Richard B. Gaynor, Marit M. van Buuren

Abstract #: 580
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5322
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 24
Presentation: Poster Session

Hypoxia and high interstitial pressure present within the tumor microenvironment can promote T cell suppression and exhaustion

Authors*: **Chiara Rancan**, **Rachel Marusinec**, James Lim, **Lawrence Fong**

Abstract #: 518
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5252
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 21
Presentation: Poster Session

Fong Research Interests: My lab focuses on how the immune system interacts with cancer as well as exploring tumor immunotherapies in mouse models and in patients. Our primary focus is in immunotherapy of solid malignancies. We investigate how immunotherapies such as immune checkpoint inhibitors and cancer vaccines can enhance anti-tumor immunity both systemically and in the tumor microenvironment. Performing neoadjuvant immunotherapy trials, we determine how specific therapies can recruit immune effectors in cancer patients. Moreover, we have studied how clinical responders may differ from clinical non-responders. We are applying unbiased approaches to studying antigen-specific responses that are modulated in these patients and are currently developing biomarkers that may be predictive of clinical efficacy.

http://cancer.ucsf.edu/people/profiles/fong_lawrence.3521

*UCSF authors in bold

HNSCC-associated caspase-8 mutations mediate resistance to apoptosis and up-regulation of immunosuppressive cytokines

Authors*: **Zhibin Cui**, **Hadas Tal**, **Jennifer R. Grandis**, **Daniel E. Johnson**

Abstract #: 726
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7889
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 32
Presentation: Poster Session

Johnson Research Interests: Dr. Johnson is Vice Chair for Research in the Department of Otolaryngology - Head and Neck Surgery. Our team is focused on understanding the role of commonly occurring mutations in the development of head and neck cancer. We are particularly focused on mutations that occur in cell death mediators, including caspase-8. Our work has shown that caspase-8 mutations associated with head and neck cancer abrogate cell death induced by death ligands. Additionally, these mutations stimulate production of immunosuppressive cytokines. Ongoing investigations are using immunocompetent preclinical models of head and neck cancer to determine the impact of caspase-8 mutations on immune cell profiles and anti-tumor immunity.

http://cancer.ucsf.edu/people/profiles/johnson_daniel.8137

DNA methylation cytometry reveals cancer survival related to cell composition

Authors*: Lucas A. Salas, Karl T. Kelsey, Devin C. Koestler, **John K. Wiencke**, Brock C. Christensen

Abstract #: 830
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3814
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 36
Presentation: Poster Session

Wiencke Research Interests: Dr. Wiencke's background is in cytogenetics, radiation biology, and molecular epidemiology. His research has focused on biomarkers of exposure to chemical toxins and tobacco smoke and on genetic susceptibility to environmental exposures. Wiencke is the director of the laboratory providing support for epidemiological and clinical studies in neuroepidemiology. His laboratory is currently studying molecular subgroups of glioma and aberrant gene methylation.

http://cancer.ucsf.edu/people/profiles/wiencke_john.3748

*UCSF authors in bold

Characterizing the genetic profile of endometrioid ovarian carcinoma using exome sequencing

Authors*: **William E. Pierson**, **Pamela Peters**, **David A. Quigley**, **Lee-may Chen**, **Jocelyn S. Chapman**

Abstract #: 733
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3347
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 33
Presentation: Poster Session

Chapman Research Interests: Dr. Jocelyn Chapman is a surgical and medical cancer expert in gynecologic malignancies and treats patients with cancerous and complex noncancerous diseases of the female reproductive system. In addition to expertise in the aggressive surgical management of advanced ovarian and uterine cancers, she also has special training in minimally invasive surgery (laparoscopy and robotic surgery) for appropriately selected patients. Her clinical research focuses on innovating surgical and preoperative processes to ensure that quality surgical care and patient safety are maintained for all gynecologic oncology patients at our institution. Dr. Chapman brings expertise in computational genomics to the division and collaborates with UCSF cancer center researchers to understand the genetic vulnerabilities in gynecologic cancer that can be exploited for therapeutic targeting.

http://cancer.ucsf.edu/people/profiles/chapman_jocelyn.7690

Up-regulation of miR-10a affect on prostate cancer racial disparity

Authors*: **Yutaka Hashimoto**, **Marisa Shiina**, **Yuichiro Tanaka**, **Pritha Dasgupta**, **Priyanka Kulkarni**, **Taku Kato**, **Ryan K. Wong**, **Varahram Shahryari**, **Shigekatsu Maekawa**, **Soichiro Yamamura**, **Divya Bhagiratha**, **Sharanjot Saini**, **Guoren Deng**, **Laura Tabatabai**, **Shahana Majid**, **Rajvir Dahiya**, **Rajvir Dahiya**

Abstract #: 761
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6997
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 34
Presentation: Poster Session

Dahiya Research Interests: My group, which is part of the Urology Research Center at the VAMC/UCSF under the leadership of Dr. Peter Caroll, focuses on mechanisms of growth control in GU disorders, especially prostate and renal cancer. We have developed various novel methods for evaluating epigenetic pathways, microRNAs, gene regulation, and function in these diseases both in in vitro and in vivo models. In particular we are studying the role of microRNAs in the progression and metastasis of prostate cancer, diet, miRNAs, epigenetic changes in prostate cancer and wnt antagonist genes in kidney tumor progression and metastasis.

https://urology.ucsf.edu/people/rajvir-dahiya

*UCSF authors in bold

High expression of miR-155 promotes prostate cancer aggressiveness in African-Americans compared to Caucasians

Authors*: **Marisa Shiina**, **Yutaka Hashimoto**, **Priyanka Kulkarni**, **Pritha Dasgupta**, **Varahram Shahryari**, **Guoren Deng**, **Divya Bhagirath**, **Laura Tabatabai**, **Sharanjot Saini**, **Shahana Majid**, **Soichiro Yamamura**, **Yuichiro Tanaka**, **Rajvir Dahiya**

Abstract #: 780
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7017
Presentation Date/Time: March 31, 2019, 1:00 PM - 5:00 PM
Location: Section 34
Presentation: Poster Session

Dahiya Research Interests: My group, which is part of the Urology Research Center at the VAMC/UCSF under the leadership of Dr. Peter Caroll, focuses on mechanisms of growth control in GU disorders, especially prostate and renal cancer. We have developed various novel methods for evaluating epigenetic pathways, microRNAs, gene regulation, and function in these diseases both in in vitro and in vivo models. In particular we are studying the role of microRNAs in the progression and metastasis of prostate cancer, diet, miRNAs, epigenetic changes in prostate cancer and wnt antagonist genes in kidney tumor progression and metastasis.

https://urology.ucsf.edu/people/rajvir-dahiya

GenScript: How to Use CRISPR to Accelerate Cancer Therapies- Large Knock-Ins in Human T Cells Using Non-Viral HDR Templates

Authors*: **Theodore Roth**

Abstract #: ESP03
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/session/1283
Presentation Date/Time: March 31, 2019, 1:30 PM - 2:30 PM
Location: Exhibit Theatr C- Hall B- GWCC
Presentation: Exhibitor Spotlight Presentation

Marson Research Interests: Our goal is to understand the genetic circuits that control human immune cell function in health and disease. We have begun to identify how genetic risk variants for autoimmune diseases disrupt immune cell circuits (Farh and Marson et al., Nature 2015; Simeonov et al., Nature, 2017), and how pathogenic circuits may be targeted with novel therapeutics (Xiao et al., Immunity 2014). The Marson lab has developed new tools for efficient CRISPR genome engineering in primary human T cells (Schumann et al., PNAS 2015, Roth et al. Nature 2018, Shifrut et al. Cell 2018). Now we are pursuing a comprehensive strategy to test how coding and non-coding genetic variation control essential programs in the human immune system. Genome engineered human T cells hold great potential for the next generation of cell-based therapies for cancer, autoimmunity and infectious diseases.

https://marsonlab.ucsf.edu/research-1

*UCSF authors in bold

Proteomic and genetic interaction mapping of the Ras pathway reveals new effectors and vulnerabilities

Authors*: Marcus R. Kelly, Kyuho Han, **Kaja Kostyrko**, Edwin E. Jeng, Nancie Mooney, **Alejandro Sweet-Cordero**, Michael C. Bassik, Peter K. Jackson

Abstract #: 959
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4096
Presentation Date/Time: March 31, 2019, 4:20 PM - 4:35 PM
Location: Room A315 - Georgia World CC
Presentation: Minisymposium

Sweet-Cordero Research Interests: My lab works to identify novel therapeutic approaches for cancer that target the genetic mutations & altered signaling networks specific to cancer cells. We use functional genomics applied to mouse & human systems to understand transcriptional networks regulating the outcome of specific oncogenic mutations & to understand how cancers become treatment resistant. We have 2 primary disease interests: lung cancer & pediatric sarcomas. Our lung cancer work focuses on elucidating the tissue-specific oncogenic effects of KRAS in lung cancer. We have identified synthetic vulnerabilities in the Ras pathway & are particularly interested in understanding how other genetic mutations cooperate with Ras. We also study intra-tumor heterogeneity & the possible role of stem-like cells in lung pathogenesis. Our lab has identified a novel potential therapy for lung cancer based on blocking fibroblast-epithelial cell signaling. Our pediatric cancer work is focused on using genomic approaches to identify novel oncogenic drivers in osteosarcoma & Ewing sarcoma. We have established patient-derived xenograft models for these & other pediatric solid tumors.

https://cancer.ucsf.edu/people/profiles/sweetcordero_alejandro.8106

T Cell-Mediated Immune Tolerance in Health and Disease

Authors*: **Jeffrey A. Bluestone**

Abstract #: LE03
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/session/49
Presentation Date/Time: March 31, 2019, 4:00 PM - 4:45 PM
Location: Murphy Ballrm- Bldg B- GWCC
Presentation: Awards and Lectures

Bluestone Research Interests: Our lab is broadly focused on understanding mechanisms regulating T cell activation and has centered on altering the positive and negative co-stimulatory signals that are delivered in conjunction with signals from the T cell receptor during T cell activation. In addition, we are studying the immunosuppressive Treg population. The breakdown of tolerance has been attributed to an imbalance of effector function and immune regulation, specifically defective regulation due to Treg subset defects. Multiple efforts have been forged to re-instate that balance in settings such as autoimmune disease and organ transplantation or disrupt it as a means to promote anti-tumor immunity. We have focused on Treg instability in the autoimmune and cancer settings and targeting of the FOXP3 pathway to selectively enhance Treg function and have also looked at novel approaches to understanding FOXP3 activity and delivering specific signals to Tregs to promote Treg stability and function.

https://bluestone.ucsf.edu/

*UCSF authors in bold

AACR-ONS Special Session: The Evolving Landscape of Survivorship Research

Authors*: **Laura J. Esserman**

Abstract #: SSPOL-01
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/session/147
Presentation Date/Time: March 31, 2019, 5:00 PM - 6:30 PM
Location: Georgia Ballrm 3- Bldg C- GWCC
Presentation: Special Session

Esserman Research Interests: Dr. Esserman, surgeon & breast cancer oncology specialist, is the Carol Franc Buck Breast Care Center Director and co-leads the Breast Oncology Program. Her research is on improving healthcare value through integrating translational science, clinical informatics, systems re-engineering & clinical care delivery. In 2005, she received the NCI SPORE Investigator of the Year Award. In 2016 she received the Arbuckle Award from Stanford Graduate School of Business for Excellence in Management & was named to TIME's 100 most influential people list. She is PI of the I-SPY TRIAL program, now a model for translational research & innovation in clinical trial design. She launched the Athena Breast Health Network to follow women from screening through treatment & outcomes, incorporating the latest in molecular testing & web-based tools. Athena just launched the WISDOM study to compare personalized vs annual breast cancer screening in 100,000 women and to predict who gets what kind of cancer.

http://profiles.ucsf.edu/laura.esserman

Predictive Biomarkers for Immunotherapy

Authors*: Discussant: **Pamela N. Munster**

Abstract #: CTPL01
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/session/1243
Presentation Date/Time: March 31, 2019, 1:15 PM - 1:25 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Plenary Session

Munster Research Interests: Our lab is interested in developing novel strategies to overcome hormone therapy resistance in breast cancer.

http://cancer.ucsf.edu/people/profiles/munster_pamela.3449

*UCSF authors in bold

MONDAY | APRIL 1, 2019

Evaluating cell lines and organoids as models for metastatic cancer through integrative analysis of open genomic data

Authors*: Ke Liu, Patrick Newbury, **Benjamin Glicksberg**, **William Zeng**, Eran Andrechek, Bin Chen

Abstract #: 1652
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6092
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 31
Presentation: Poster Session

Uncoupling tumor-cell cytotoxicity from cytokine release with novel T-cell engaging bispecific antibodies

Authors*: Kyle Lorentsen, Preethi Sankaran, Nathan D. Trinklein, Duy Pham, Ute Schellenberger, Ben Buelow, Andrew Boudreau, **Priya Choudhry**, Starlynn C. Clarke, Kevin Dang, Katherine E. Harris, Suhasini Iyer, Brett Jorgensen, Payal Pratap, Udaya S. Rangaswamy, Harshad S. Ugamraj, Omid Vafa, **Arun P. Wiita**, Wim van Schooten, Roland Buelow, Shelley Force Aldred

Abstract #: 1554
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2444
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 25
Presentation: Poster Session

Wiita Research Interests: Significant effort in cancer research has been directed towards understanding the composition of the cancer genome and transcriptome. Less is known, however, about how genomic alterations and therapeutic perturbations remodel the cancer proteome, despite the fact that proteins actually carry out all biological function. To attempt to bridge this knowledge gap, the Wiita Lab uses a combination of genome engineering, chemical biology, and quantitative mass spectrometry-based proteomics to discover basic biology and new therapeutic targets in hematologic malignancies. In addition, the Wiita Lab also includes the UCSF Stephen and Nancy Grand Multiple Myeloma Translational Initiative laboratory (MMTI Lab). The MMTI Lab works with academic and industry partners to perform preclinical evaluation of new small molecules and immunotherapies across a suite of in vitro, in vivo, and patient ex vivo models, with the goal of moving compounds into the clinic to benefit myeloma patients.

http://labmed.ucsf.edu/wiita/

*UCSF authors in bold

Assessing the utility of cell-free DNA in identifying prostate cancer and characterizing tumor heterogeneity via whole exome and whole genome, multi-region sequencing

Authors*: **Emmalyn Chen**, **Clinton Cario**, **Lancelote Leong**, **Karen Lopez**, **Patricia Li**, **Erica Oropeza**, **Imelda Tenggara**, **Janet Cowan**, **Jeffry Simko**, Daniel Wells, Robin Kageyama, **June Chan**, **Terence Friedlander**, **Pamela Paris**, **Peter Carroll**, **John Witte**

Abstract #: 1371
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4845
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 19
Presentation: Poster Session

Witte Research Interests: Our research program encompasses a synthesis of methodological and applied genetic epidemiology, with the overall aim of deciphering the mechanisms underlying complex diseases and traits (Witte, Visscher & Wray, Nature Reviews Genetics 2014). Our methods work is focused on the design and statistical analysis of next-generation sequencing and genetic association studies. We are applying these methods to studies of cancer (e.g., of the prostate), birth defects, and pharmacogenomics.

http://wittelab.ucsf.edu

Detection of early stage pancreatic cancer using 5–hydroxymethylcytosine signatures in circulating cell free DNA

Authors*: Francois Collin, Yuhong Ning, Gulfem D. Guler, Tierney Phillips, Erin McCarthy, Aaron Scott, Chris Ellison, Chin-Jen Ku, Kim Chau, **Alan Ashworth**, Stephen R. Quake, Samuel Levy

Abstract #: 1372
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4846
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 19
Presentation: Poster Session

*UCSF authors in bold

Breast cancer subtype GWAS in Peruvian breast cancer patients

Authors*: Katie M. Marker, Tatiana Vidaurre, Jeannie Navarro Vasquez, **Valentina Zavala**, Silvia Serrano Gomez, Lizeth Tamayo, Renzo Meza Florez, S. Casavilca, M. Calderon, JE Abugattas, Henry Gómez, Hugo Fuentes, CL Monge Pimentel, Sikai Song, Daniel Cherry, **Scott Huntsman**, **Donglei Hu**, **Elad Ziv**, **Laura Fejerman**

Abstract #: 1589
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1958
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 19
Presentation: Poster Session

Fejerman Research Interests: Dr. Fejerman focuses on the discovery of genetic and non-genetic factors that contribute to breast cancer risk and prognosis in Latinas. Her past work established a relationship between genetic ancestry and breast cancer risk, where higher European ancestry in U.S. and Mexican Latinas was associated with an increased risk. Her subsequent research has built upon this observation, exploring genetic variants, through admixture mapping and genome-wide association approaches, as well as the possible environmental and lifestyle related factors, and ancestry-gene interactions. Recent work explores disparities in breast cancer prognosis by genetic ancestry in Latinas and its potential causes.

http://fejerman.ucsf.edu

Circadian clock gene expression and lethal prostate cancer outcomes

Authors*: Sarah C. Markt, Ericka Ebot, **Iona Cheng**, Lynne Wilkens, Ayesha Shafi, Karen Knudsen, Kathryn Penney, Lorelei Mucci, Travis Gerke

Abstract #: 1574
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2005
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 26
Presentation: Poster Session

Cheng Research Interests: Dr. Cheng is an Associate Professor in the Department of Epidemiology and Biostatistics at the University of California, San Francisco. She is also co-Investigator of the SEER Greater Bay Area Cancer Registry. She is a cancer and genetic epidemiologist, and Principal Investigator of multiple NIH- and foundation-funded projects aimed at examining genetics, lifestyle factors, and neighborhood characteristics in relation to cancer risk. She has an extensive research program investigating racial/ethnic differences in cancer risk and has expertise in leading population-based cancer surveillance studies that document the variation in cancer incidence and mortality patterns across race/ethnicity.

http://cancer.ucsf.edu/people/profiles/cheng_iona.8683

*UCSF authors in bold

Biochemical and structural analysis of the Neurofibromin (NF1) protein and a potential role for protein destabilization in Rasopathy diseases

Authors*: Mukul Sherekar, **Sae-Won Han**, Simon Messing, Matthew Drew, William Gillette, **Claire Lorenzo**, **Frank McCormick**, Dominic Esposito

Abstract #: 1768
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4131
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 26
Presentation: Poster Session

FOXO1, a downstream substrate of AKT, function as tumor suppressor in HCC carcinogenesis

Authors*: **Shu Zhang**, **Xin Chen**

Abstract #: 1721
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2217
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 34
Presentation: Poster Session

Chen Resarch Interests: Our lab studies molecular genetics and signaling pathways during liver cancer growth to develop new therapies to treat liver cancer. We are studying multiple types of liver cancer, including hepatocellular carcinoma (HCC), intrahepatic cholangiocarcinoma (ICC), and hepatoblastoma (HB).

https://pharm.ucsf.edu/xinchen

*UCSF authors in bold

Association of inherited variants with chromosomal breaks in cancer

Authors*: Meng Xiao He, Sahar Shahamatdar, Amaro Taylor-Weiner, **Travis Zack**, Sohini Ramachandran, Eliezer Van Allen

Abstract #: 1737
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/929
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 35
Presentation: Poster Session

Novel roles of DNA-PK in metabolic regulation in prostate cancer

Authors*: Emanuela Dylgjeri, Jonathan Goodwin, Ayesha Shafi, **Vishal Kothari**, Giorgia Zadra, Erin Seifert, **Felix Feng**, Karen Knudsen

Abstract #: 1851
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5725
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 39
Presentation: Poster Session

Feng Research Interests: Dr. Felix Feng is a leader in translational research in prostate cancer. The primary aim of Dr. Feng's research program is to individualize therapy for patients with aggressive disease, by identifying determinants of treatment resistance and developing strategies to overcome this resistance. To enhance current clinical approaches from a biological perspective, his laboratory and dedicated research team are pursuing three major goals: 1) to identify novel molecular biomarkers of aggressive prostate cancer, 2) to understand the mechanisms by which several of these biomarkers drive disease progression, and 3) to develop therapeutic approaches to target these disease drivers.

https://radonc.ucsf.edu/felix-feng

*UCSF authors in bold

Linking clinical molecular profiles of tumors to the electronic medical record

Authors*: **Debajyoti Datta**, **Atul Butte**, **Theodore Goldstein**

Abstract #: 1695
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3448
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 33
Presentation: Poster Session

---

miRNA alterations associated with transition of advanced castration-resistant prostate cancer to neuroendocrine prostate cancer

Authors*: **Divya Bhagirath**, **Thao Yang**, **Laura Tabatabai**, **Shahana Majid**, **Rajvir Dahiya**, **Yuichiro Tanaka**, **Sharanjot Saini**

Abstract #: 1807
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7053
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 37
Presentation: Poster Session

Saini Research Interests: A major clinical challenge in prostate cancer is the elucidation of pathways of tumor progression, recurrence and metastasis, which could lead to the design of better diagnostic and therapeutic strategies against the disease. Towards this, our current research is primarily focused on delineating the molecular mechanisms driving prostate cancer progression, recurrence and metastasis. We are particularly interested in understanding key microRNA-mediated molecular pathways in prostate cancer with a long term objective of development of microRNAs as alternative biomarkers for the disease. We have identified important microRNA regulators of prostate cancer metastasis and also elucidated the regulatory role of key microRNAs in prostate cancer stem cells.

http://cancer.ucsf.edu/people/profiles/saini_sharanjot.8680

*UCSF authors in bold

LncRNA TCL6 / microRNA155 axis regulates the PI3K/ AKT pathway in clear cell renal carcinoma

Authors*: **Priyanka Kulkarni**, **Pritha Dasgupta**, **Shahana Majid**, **Marisa Shiina**, **Yutaka Hashimoto**, **Varahram Shahryari**, **Sharanjot Saini**, **Soichiro Yamamura**, **Laura Tabatabai**, **Guoren Deng**, **Yuichiro Tanaka**, **Rajvir Dahiya**

Abstract #: 1827
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7175
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 38
Presentation: Poster Session

Dahiya Research Interests: My group, which is part of the Urology Research Center at the VAMC/UCSF under the leadership of Dr. Peter Caroll, focuses on mechanisms of growth control in GU disorders, especially prostate and renal cancer. We have developed various novel methods for evaluating epigenetic pathways, microRNAs, gene regulation, and function in these diseases both in in vitro and in vivo models. In particular we are studying the role of microRNAs in the progression and metastasis of prostate cancer, diet, miRNAs, epigenetic changes in prostate cancer and wnt antagonist genes in kidney tumor progression and metastasis.

https://urology.ucsf.edu/people/rajvir-dahiya

Extracellular matrix dimensionality reduces cellular cortical tension to stimulate pro-survival signaling in mammary epithelial cells

Authors*: **FuiBoon Kai**, **Guanqing Ou**, **Alexandra Long**, Wei Guo, Richard Tourdot, Ravi Radhakrishnan, Christopher Chen, **Sophie Dumont**, **Valerie M. Weaver**

Abstract #: 1028
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6616
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 3
Presentation: Poster Session

Weaver Research Interests: The extracellular matrix (ECM), the noncellular component of the microenvironment, influences cell growth, survival, migration and tissue-specific differentiation through a repertoire of cellular receptors including integrins, syndecans and discoidin receptors. We are exploring the molecular mechanisms whereby these ECM receptors modulate cell fate: specifically, how mechanical and topological properties of the matrix, which are related to its composition and organization, regulate the function of matrix receptors to alter cell behavior. Our research program is broadly divided into two fields of inquiry: (1) how matrix composition and organization influences mammary tissue development and tumor progression and (2) to clarify the role of matrix force on embryonic and adult stem cell fate. More recently, we have broadened our program to include an exploration into the interplay between tissue fibrosis, tissue tension and immune regulation.

http://weaverlab.ucsf.edu

*UCSF authors in bold

PD-L1 expression and the tumor immune microenvironment in NUT carcinoma

Authors*: Lisa M. Rooper, Nyall R. London, Janis M. Taube, William H. Westra, Justin A. Bishop, **Hyunseok Kang**

Abstract #: 1191
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4489
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 9
Presentation: Poster Session

Kang Research Interests: Dr. Hyunseok "Hyu" Kang is a medical oncologist and a clinician scientist focusing on head and neck cancers including squamous cell carcinomas of head and neck (SCCHN), salivary gland cancers, thyroid cancers and other rare cancers of head and neck. Dr. Kang joined UCSF from the Johns Hopkins University School of Medicine in Baltimore, MD where he was an Assistant Professor of Oncology, Otolaryngology - Head and Neck Surgery. Dr. Kang's research focus is development of clinical trials with novel therapeutic agents and identification of biomarkers for patients with head and neck cancers.

https://medicine.ucsf.edu/people/hyunseok-kang

Phase I expansion study of irinotecan liposome injection (nal-IRI) in patients with metastatic breast cancer (mBC)

Authors*: Jasgit Sachdev, **Pamela Munster**, Donald Northfelt, Hyo S. Han, Cynthia MA, Fiona Maxwell, Tiffany Wang, Bruce Belanger, Bin Zhang, Yan Moore, Carey Anders

Abstract #: CT048
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9863
Presentation Date/Time: April 1, 2019, 8:00 AM - 12:00 PM
Location: Section 17
Presentation: Poster Session

Munster Research Interests: Our lab is interested in developing novel strategies to overcome hormone therapy resistance in breast cancer.

http://cancer.ucsf.edu/people/profiles/munster_pamela.3449

*UCSF authors in bold

Building infrastructures to address multilevel determinants of cancer health disparities

Authors*: **Scarlett L. Gomez**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7251
Presentation Date/Time: April 1, 2019, 10:35 AM - 11:00 AM
Location: Room B206 - Georgia World CC
Presentation: Major Symposiusm

Gomez Research Interests: Dr. Gomez is an epidemiologist with research interests in the role of social determinants of health, including race/ethnicity, socioeconomic status, gender, immigration status, sociocultural factors, and neighborhood contextual characteristics, on health outcomes. She is also Director of the Greater Bay Area Cancer Registry, a part of the California Cancer Registry and the NCI Surveillance Epidemiology End Results (SEER) Program. She has contributed surveillance data regarding cancer incidence and outcome patterns and trends for distinct Asian American, Native Hawaiian, and Pacific Islander and Hispanic ethnic groups, as well as cancer patterns by nativity status and neighborhood characteristics. She developed the California Neighborhoods Data System, a compilation of small-area level data on social and built environment characteristics and has used these data in more than a dozen funded studies to evaluate the impact of social and built neighborhood environment factors on disease outcomes.

http://cancer.ucsf.edu/people/profiles/gomez_scarlett.8510

Overview and RAS inhibitors

Authors*: **Frank McCormick**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/8270
Presentation Date/Time: April 1, 2019, 12:15 PM - 12:25 PM
Location: Room A406 - Georgia World CC
Presentation: NCI/NIH-Sponsored Session

*UCSF authors in bold

Gabriella Miller Kids First Data Resource Center: Harmonizing clinical and genomic data to support childhood cancer and structural birth defect research

Authors*: Allison P. Heath, Deanne M. Taylor, Yuankun Zhu, Pichai Raman, Jena Lilly, Phillip Storm, Angela J. Waanders, Vincent Ferretti, Christina Yung, Michele Mattioni, Brandi Davis-Dusenbery, Zachary L. Flamig, Robert Grossman, Samuel L. Volchenboum, **Sabine Mueller**, Javad Nazarian, Nicole Vasilevsky, Melissa A. Haendel, Adam Resnick

Abstract #: 2464
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6063
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 31
Presentation: Poster Session

Mueller Research Interests: The laboratory of Dr. Sabine Mueller focuses on translational research in pediatric neuro-oncology. A key focus is the development and characterization of patient derived xenograft (PDX) models for diffuse intrinsic pontine gliomas (DIPG) and other pediatric high grade gliomas (pHGGs). In particular, the Mueller lab investigates the genomic heterogeneity of DIPGs and other pHGGs. Additionally, they are exploring the utility of liquid biopsies by assessing circulating tumor DNA and correlating this with disease response. Further, the laboratory is exploring central nervous system (CNS) directed delivery strategies, such as convection enhanced delivery (CED) in combination with nanotechnology, in these PDX models. The laboratory has several industry partnerships to test new agents as single agents and in combination therapy strategies with other agents as well as radiation therapy.

http://cancer.ucsf.edu/people/profiles/mueller_sabine.4800

Designing an intuitive visualization of BRCAness scores for clinicians

Authors*: **Hannah R. Allegakoen**, Mary Goldman, **Bennett Caughey**, **Martin Consunji**, Christopher C. Benz, David Haussler, Jingchun Zhu, **Eric A. Collisson**

Abstract #: 2466
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6078
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 31
Presentation: Poster Session

*UCSF authors in bold

Improving the effectiveness of immunotherapy in breast cancer by targeting the tumor microenvironment

Authors*: Hasan Korkaya, Eunmi Lee, Raziye Piranioglu, Maria Ouzounova, Ahmet Korkaya, **Jason Gestwicki**, Max S. Wicha, Esteban Celis

Abstract #: 2245
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2492
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 19
Presentation: Poster Session

Gestwicki Research Interests: We are interested in how molecular chaperones, such as Hsp70 and Hsp90, work together to maintain protein homostasis, which is the balance of protein folding, trafficking and turnover. Understanding this delicate balance is important because protein homeostasis is dramatically disrupted in many diseases, especially neurodegeneration and cancer. Our approach is to create small molecules that disrupt (or promote) interactions between chaperones. Using these chemical probes, we perturb protein-protein interactions and learn how this chaperone network is "wired". These studies have taken us into many exciting areas of biotechnology and chemical biology.

http://gestwickilab.ucsf.edu

Single cell capture and molecular analysis of live CTCs using integrated microwells and single cell aspirator

Authors*: Charlotte N. Stahlfeld, Jake J. Tokar, **David Quigley**, David Niles, Jamie M. Sperger, **Felix Feng**, Joshua M. Lang

Abstract #: 2291
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4885
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 20
Presentation: Poster Session

Feng Research Interests: Dr. Felix Feng is a leader in translational research in prostate cancer. The primary aim of Dr. Feng's research program is to individualize therapy for patients with aggressive disease, by identifying determinants of treatment resistance and developing strategies to overcome this resistance. To enhance current clinical approaches from a biological perspective, his laboratory and dedicated research team are pursuing three major goals: 1) to identify novel molecular biomarkers of aggressive prostate cancer, 2) to understand the mechanisms by which several of these biomarkers drive disease progression, and 3) to develop therapeutic approaches to target these disease drivers.

https://radonc.ucsf.edu/felix-feng

*UCSF authors in bold

A polygenic risk score predicts breast cancer risk in Latinas

Authors*: **Yiwey Shieh**, **Laura Fejerman**, Sarah D. Sawyer, **Donglei Hu**, **Scott Huntsman**, Esther M. John, Lawrence H. Kushi, Gabriela Torres-Mejia, Jeffrey N. Weitzel, Christopher A. Haiman, **Elad Ziv**, Susan L. Neuhausen

Abstract #: 2419
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1965
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 26
Presentation: Poster Session

Shieh Research Interests: Yiwey Shieh, MD is an Assistant Professor in the Department of Medicine at the University of California, San Francisco (UCSF). Dr. Shieh is a general internist and clinical epidemiologist interested in improving the delivery of breast cancer screening and prevention through the use of risk stratification tools. His current work uses clinical risk factors, breast density, and genetic variants to refine individualized risk assessment, especially as it pertains to disease biology. As a clinician-investigator, he is particularly interested in how such tools can be leveraged to enhance clinical decision-making.

http://cancer.ucsf.edu/people/profiles/shieh_yiwey.8684

Discovery of degradation pathway for maternal embryonic leucine zipper kinase (MELK): Implications for breast cancer therapy

Authors*: Shyam Nyati, Benjamin Chandler, Anna Michmerhuizen, Andrea Pesch, Cassandra Ritter, Leah Moubadder, Meilan Liu, Meleah Cameron, Eric Olsson, Kari Wilder-Romans, Dipankar Ray, Theodore S. Lawrence, **Felix Y. Feng**, Lori J. Pierce, Corey Speers

Abstract #: 2539
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5887
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 34
Presentation: Poster Session

Feng Research Interests: Dr. Felix Feng is a leader in translational research in prostate cancer. The primary aim of Dr. Feng's research program is to individualize therapy for patients with aggressive disease, by identifying determinants of treatment resistance and developing strategies to overcome this resistance. To enhance current clinical approaches from a biological perspective, his laboratory and dedicated research team are pursuing three major goals: 1) to identify novel molecular biomarkers of aggressive prostate cancer, 2) to understand the mechanisms by which several of these biomarkers drive disease progression, and 3) to develop therapeutic approaches to target these disease drivers.

https://radonc.ucsf.edu/felix-feng

*UCSF authors in bold

RNA rescue somatic mutations and RNA editing in esophageal cancer

Authors*: Amie J. Radenbaugh, J. Zachary Sanborn, Yulia Newton, Charlie Vaske, **Katherine Van Loon**, **Eric Collisson**

Abstract #: 2522
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3498
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 33
Presentation: Poster Session

Differential activation of the integrated stress response correlates with anti-tumor activity of imipridones ONC201 and ONC206 in pediatric sarcomas

Authors*: **David V. Allegakoen**, Rohinton S. Tarapore, Joshua E. Allen, **Amit J. Sabnis**, **Trever G. Bivona**

Abstract #: 2664
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4043
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 39
Presentation: Poster Session

Bivona Research Interests: Our team uses the tools of precision medicine to improve the molecular diagnosis and targeted therapy of patients with solid cancers, including lung cancer. Our program focuses on identifying and functionally characterizing the molecular drivers of tumor growth in individual patients. We study patient samples and clinical data to identify novel potential drivers of tumor initiation, progression, and therapy resistance. We functionally annotate the putative molecular drivers using an integrated approach of genetic and pharmacologic tools. This precision approach to understanding the molecular pathogenesis of lung cancer (and other cancers) has led to the discovery of new biomarkers and targets that provide rationale for novel clinical trials we are launching to improve patient survival.

http://www.bivonalab.net/

*UCSF authors in bold

Social Support as a Moderator in the Relationship between Intrusive Thoughts and Psychological Symptoms among Spanish-speaking Latinas with Breast Cancer

Authors*: Cristian Escalera, Anna Maria Napoles, **Jasmine Santoyo-Olsson**, Carmen Ortiz

Abstract #: 2429
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5875
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 27
Presentation: Poster Session

A tension-mediated glycocalyx feedback loop promotes glioblastoma

Authors*: **Shelly Kaushik**, **James Matthew Barnes**, **Russell O. Bainer**, Jason K. Sa, Elliot C. Woods, **Fuiboon Kai**, **Jonathon N. Lakins**, **Joanna J. Phillips**, **Valerie M. Weaver**

Abstract #: 1900
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4321
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 3
Presentation: Poster Session

Weaver Research Interests: The extracellular matrix (ECM), the noncellular component of the microenvironment, influences cell growth, survival, migration and tissue-specific differentiation through a repertoire of cellular receptors including integrins, syndecans and discoidin receptors. We are exploring the molecular mechanisms whereby these ECM receptors modulate cell fate: specifically, how mechanical and topological properties of the matrix, which are related to its composition and organization, regulate the function of matrix receptors to alter cell behavior. Our research program is broadly divided into two fields of inquiry: (1) how matrix composition and organization influences mammary tissue development and tumor progression and (2) to clarify the role of matrix force on embryonic and adult stem cell fate. More recently, we have broadened our program to include an exploration into the interplay between tissue fibrosis, tissue tension and immune regulation.

http://weaverlab.ucsf.edu

*UCSF authors in bold

Epidermal growth factor receptor oncogenes expressed in glioblastoma are activated as covalent dimers and exhibit unique pharmacology

Authors*: Matthew O'Connor, Theodore Nicolaides, **Jie Zhang**, Alexander Flohr, Roberto Iacone, Alexander V. Mayweg, David M. Epstein, Elizabeth Buck

Abstract #: LB-111
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9149
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 40
Presentation: Poster Session

Cyfi: Results from a Phase Ib expansion cohort of anti-hepatocyte growth factor and cytarabine in relapsed and refractory AML

Authors*: **Victoria E. Wang**, **Charalambos Andreadis**

Abstract #: CT078
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9886
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 16
Presentation: Poster Session

Andreadis Research Interests: Dr. Andreadis studies the interplay of cancer genetics and traditional pharmacogenetics (germline) as it pertains to prognosis and treatment response in patients with cancer, and especially hematologic malignancies. His clinical experience combined with his molecular epidemiology statistical expertise have been the primary drivers for this work. Another important focus of his research centers on targeted and immune therapies for lymphoma, specifically Diffuse Large B-cell Lymphoma.

http://cancer.ucsf.edu/people/profiles/andreadis_babis.3784

*UCSF authors in bold

A Phase Ib/IIa study of the BET bromodomain inhibitor ZEN-3694 in combination with enzalutamide in patients with metastatic castration-resistant prostate cancer (mCRPC)

Authors*: **Rahul Aggarwal**, Wassim Abida, Michael Schweizer, Allan Pantuck, David Nanus, Elisabeth Heath, Sanjay Lakhotia, Henrik Hansen, Michael Silverman, Lisa Bauman, Margo Snyder, Eric Campeau, Karen Norek, Sarah Attwell, Marie O'Farrell, Steve Smith, Philip Wegge, Ravi Jahagirdar, Joshi Alumkal

Abstract #: CT095
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9903
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 16
Presentation: Poster Session

Aggarwal Research Interests: I am an Associate Clinical Professor of Medicine in the Department of Medicine, Hematology/Oncology within the Genitourinary Oncology and Developmental Therapeutics programs. My research program is focused upon developing novel therapeutic and imaging strategies for patients with advanced prostate cancer. I serve as Co-Investigator in the ongoing Prostate Cancer Foundation/SU2C-funded West Coast Dream Team prostate cancer consortium, focused on clinically and genomically characterizing metastatic tumor biopsies, including those with oligometastatic disease. Thus far approximately 10% of our patients have oligometastatic disease, and we anticipate a larger percentage as begin to biopsy patients earlier in their disease course. The infrastructure of this program will provide the mechanism to genomically characterize oligometastatic disease and compare with patients with more extensive disease, to understand if there are intrinsic biologic differences between these disease subtypes.

http://cancer.ucsf.edu/people/profiles/aggarwal_rahul.7339

KEYNOTE-046: Effects of ADXS-PSA with or without pembrolizumab on survival and antigen spreading in metastatic, castration-resistant prostate cancer patients

Authors*: Mark Stein, **Lawrence Fong**, Ronald Tutrone, Anthony Mega, Elaine T. Lam, Surya Vangala, Justin Dennie, Robert Petit, Andres Gutierrez, Sandy Hayesi, Naomi Haas

Abstract #: CT098
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9906
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 16
Presentation: Poster Session

Fong Research Interests: My lab focuses on how the immune system interacts with cancer as well as exploring tumor immunotherapies in mouse models and in patients. Our primary focus is in immunotherapy of solid malignancies. We investigate how immunotherapies such as immune checkpoint inhibitors and cancer vaccines can enhance anti-tumor immunity both systemically and in the tumor microenvironment. Performing neoadjuvant immunotherapy trials, we determine how specific therapies can recruit immune effectors in cancer patients. Moreover, we have studied how clinical responders may differ from clinical non-responders. We are applying unbiased approaches to studying antigen-specific responses that are modulated in these patients and are currently developing biomarkers that may be predictive of clinical efficacy.

http://cancer.ucsf.edu/people/profiles/fong_lawrence.3521

*UCSF authors in bold

A Phase I open-label, safety, pharmacokinetic, and preliminary efficacy study of STRO-001, an anti-CD74 antibody drug conjugate, in patients with advanced B-cell malignancies

Authors*: Nirav N. Shah, Amrita Y. Krishnan, **Nina D. Shah**, John M. Burke, Jason M. Melear, Alexander I. Spira, Jonathan L. Kaufman, Jonathon B. Cohen, Ruben Niesvizky, Leslie L. Popplewell, Saurabh Chhabra, Jeff P. Sharman, **Thomas G. Martin**, Shannon L. Matheny, John P. Leonard, Arturo Molina

Abstract #: CT104
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9976
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 17
Presentation: Poster Session

Shah Research Interests: Dr. Nina Shah is an expert in cellular therapy for multiple myeloma. She has developed a novel natural killer cell platform using umbilical cord blood and conducted a first-in-human clinical trial for cord blood derived natural killer cells in the setting of high dose chemotherapy and autologous stem cell transplantation. She is also interested in dendritic cell-based vaccines, adoptive T cell therapies and novel immunomodulatory combinations for myeloma.

http://cancer.ucsf.edu/people/profiles/shah_nina.8258

A Phase I multicenter trial of the dual MDM2/MDMX inhibitor ALRN-6924 in children and young adults with relapsed/refractory pediatric cancers

Authors*: David S. Shulman, **Kieuhoa T. Vo**, Elizabeth Fox, Jodi A. Muscal, Loren D. Walensky, Yana Pikman, Kimberly Stegmaier, Alanna Church, Brian D. Crompton, Andrew E. Place, Susan N. Chi, Allison F. O'Neill, Junne Kamihara, Suzanne Ezrre, Cecilia Carlowicz, Dawn Pinchasik, Hasan Al-Sayegh, Clement Ma, Wendy B. London, Steven G. DuBois

Abstract #: CT112
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9984
Presentation Date/Time: April 1, 2019, 1:00 PM - 5:00 PM
Location: Section 17
Presentation: Poster Session

Vo Research Interests: My research career is focused on the development of novel prognostic and predictive biomarkers and incorporation of these biomarkers into new clinical trials, working towards more effective and less toxic therapies in children and young adults with solid tumors.

http://cancer.ucsf.edu/people/profiles/vo_kieuhoa.7395

*UCSF authors in bold

Integration of DNA repair deficiency and immune biomarkers to predict which early-stage triple-negative breast cancer patients are likely to respond to platinum-containing regimens vs. immunotherapy: The neoadjuvant I-SPY 2 trial

Authors*: **Denise M. Wolf**, **Christina Yau**, Julia Wulfkuhle, Emanuel Petricoin, **Lamorna Brown-Swigart**, **Gillian Hirst**, Smita Asare, I-SPY 2 Consortium, Douglas Yee, Angela DeMichele, **Hope Rugo**, Olufunmilayo Olopade, Rita Nanda, Minetta Liu, **Laura Esserman**, **Laura van 't Veer**

Abstract #: 2679
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4800
Presentation Date/Time: April 1, 2019, 4:35 PM - 4:50 PM
Location: Room B312 - Georgia World CC
Presentation: Minisymposium

van 't Veer Research Interests: Dr. van 't Veer's research focuses on personalized medicine & advancing patient management based on knowledge of the genetic makeup of the tumor as well as the genetic makeup of the patient. Her laboratory investigates human kinases & how kinase inhibitors elicit response & resistance, which is also utilized to understand agent efficacy in the I-SPY 2 TRIAL. She is the PI of the Athena Breast Health Network, a 150,000 women cohort study evaluating new paradigms to enhance breast health. She leads the targeted genome testing of 100,000 women for 9 breast cancer susceptibility genes and a selection of ~100 known susceptibility SNPs. She is one of the PIs for the NIH Big Data to Knowledge Center Translational Genomics, facilitating worldwide standardization of sharing annotated genomics data.

http://cancer.ucsf.edu/people/profiles/vantveer_laura.3358

Associations between a polygenic risk score and risk of multiple myeloma and its precursor

Authors*: Alyssa I. Clay-Gilmour, Michelle A. T. Hildebrandt, Nicola J. Camp, **Elad Ziv**, Elizabeth E. Brown, Jonathan N. Hofmann, John J. Spinelli, Graham G. Giles, Parveen Bhatti, Wendy Cozen, Xifeng Wu, Dennis P. Robinson, Aaron D. Norman, Jason P. Sinnwell, Shaji K. Kumar, S Vincent Rajkumar, Susan L. Slager, Celine M. Vachon

Abstract #: 2686
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1898
Presentation Date/Time: April 1, 2019, 4:35 PM - 4:50 PM
Location: Room C302 - Georgia World CC
Presentation: Minisymposium

Ziv Research Interests: Dr. Ziv's group focuses on understanding how inherited genetic variation affects cancer risk, progression and response to therapy. A major interest has been genetic susceptibility to breast cancer among Latinas. They use a variety of methods including admixture analysis, genome wide association and whole exome sequencing approach to study breast cancer risk among Latinas. They are also studying germline-somatic interactions in breast tumors from Latina women. In addition, they are interested in how genetic variation affects the immune response to tumors and are studying germline variation as a predictor of response and adverse events from immunotherapy. They are also working on studies of the genetics underlying multiple myeloma susceptibility and progression.

http://cancer.ucsf.edu/people/profiles/ziv_elad.3779

*UCSF authors in bold

Palbociclib in combination with fulvestrant or tamoxifen as treatment for hormone receptor positive metastatic breast cancer with prior chemotherapy for advanced disease (TBCRC 035): A Phase II study with pharmacodynamic markers

Authors*: **Hope S. Rugo**, Erica Mayer, Anna Maria Storniolo, Claudine Isaacs, Ingrid Mayer, Vered Stearns, Rita Nanda, Julie Nangia, **Michelle Melisko**, **Chiara Wabl**, Alona Muzikansky, Bose Kochupurakkal, Ben H. Park, Antonio Wolff, Geoffrey Shapiro

Abstract #: CT128
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9846
Presentation Date/Time: April 1, 2019, 3:20 PM - 3:35 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Minisymposium

Rugo Research Interests: Hope S. Rugo, MD, is a medical oncologist specializing in breast cancer (BC) research and treatment. She is a Professor of medicine, the Director of Breast Oncology and Clinical Trials Education at UCSF and a principal investigator of multiple clinical trials focusing on combining novel targeted therapeutics with standard treatment to improve BC treatment. Her current research interests include immunotherapy and combinations of targeted agents to overcome resistance, plus studies focusing on reducing toxicity from therapy, which resulted in approval of scalp cooling to reduce chemotherapy induced hair loss, and a steroid mouthwash to reduce targeted agent stomatitis. She is an investigator and the chair of the Safety Committee for the phase II I-SPY2 trial, and also serves on the Novel Agents Committee. Dr. Rugo is the co-chair of the Triple Negative Working Group and an active member of the Translational Breast Cancer Research Consortium. She is also an active member of the Alliance Breast Committee.

http://cancer.ucsf.edu/people/profiles/rugo_hope.3648

Identifying molecular determinants of response to apalutamide (APA) in patients (pts) with nonmetastatic castration-resistant prostate cancer (nmCRPC) in the SPARTAN study

Authors*: **Felix Feng**, Shibu Thomas, Michael Gormley, Angela Lopez-Gitlitz, Margaret K. Yu, Shinta Cheng, Deborah S. Ricci, Brendan Rooney, Paul N. Mainwaring, David Olmos, Fred Saad, Simon Chowdhury, Boris Hadaschik, Nick Fishbane, Elai Davicioni, Yang Liu, **Eric J. Small**, Matthew R. Smith

Abstract #: CT129
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9847
Presentation Date/Time: April 1, 2019, 3:35 PM - 3:50 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Minisymposium

Feng Research Interests: Dr. Felix Feng is a leader in translational research in prostate cancer. The primary aim of Dr. Feng's research program is to individualize therapy for patients with aggressive disease, by identifying determinants of treatment resistance and developing strategies to overcome this resistance. To enhance current clinical approaches from a biological perspective, his laboratory and dedicated research team are pursuing three major goals: 1) to identify novel molecular biomarkers of aggressive prostate cancer, 2) to understand the mechanisms by which several of these biomarkers drive disease progression, and 3) to develop therapeutic approaches to target these disease drivers.

https://radonc.ucsf.edu/felix-feng

*UCSF authors in bold

Entrectinib in NTRK-fusion positive (NTRK-FP) non-small cell lung cancer (NSCLC): Integrated analysis of patients enrolled in three trials (STARTRK-2, STARTRK-1 and ALKA-372-001)

Authors*: Robert Doebele, Luis Paz-Ares, Anna F. Farago, Stephen V. Liu, Sant P. Chawla, Diego Tosi, **Collin M. Blakely**, John C. Krauss, Darren Sigal, Lyudmila Bazhenova, Tom John, Benjamin Besse, Jürgen Wolf, Takashi Seto, Edna Chow-Maneval, Chenglin Ye, Brian Simmons, George D. Demetri

Abstract #: CT131
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9849
Presentation Date/Time: April 1, 2019, 4:05 PM - 4:20 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Minisymposium

Blakely Research Interests: The primary focus of my research is to translate laboratory-based findings into novel investigator sponsored trials that aim to assess the safety and efficacy of rationally designed targeted therapies for lung cancer patients. My goals are to: 1) define how TKI resistance pathways evolve at the tumor genome, transcriptome and molecular signaling levels within lung cancers and to translate these findings into novel prognostic and predictive biomarkers that may predict TKI resistance before it occurs; 2) develop investigator sponsored clinical trials to test rational companion therapies that can prevent, delay, or overcome TKI resistance, 3) develop investigator sponsored clinical trials to target recently identified oncogenic pathways, outside of EGFR and ALK, that drive NSCLC; and 4) establish a cohort of patient-derived xenograft (PDX) mice to foster research that aims to further understand the molecular mechanisms of response and resistance to TKI therapies in lung cancer.

https://top.ucsf.edu/meet-the-team/medical-oncologists/collin-blakely,-md,-phd.aspx

---

Interim results of a Phase I/II trial of intratumoral CpG, local low-dose radiation, and oral ibrutinib in patients with low-grade B-cell lymphoma

Authors*: Tanaya Shree, Michael S. Khodadoust, Debra Czerwinski, Matthew J. Frank, Wan X. Hong, Rachel Greenstein, Summer Guo, **Steven Long**, Brock A. Martin, Ronald Levy

Abstract #: CT133
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9851
Presentation Date/Time: April 1, 2019, 4:35 PM - 4:50 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Minisymposium

*UCSF authors in bold

CTLA-4 and T regulatory cells in autoimmunity and cancer

Authors*: **Jeffrey A. Bluestone**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3277
Presentation Date/Time: April 1, 2019, 5:20 PM – 5:40 PM
Location: Hall A - Convention Center
Presentation: Special Session

Bluestone Research Interests: Our lab is broadly focused on understanding mechanisms regulating T cell activation and has centered on altering the positive and negative co-stimulatory signals that are delivered in conjunction with signals from the T cell receptor during T cell activation. In addition, we are studying the immunosuppressive Treg population. The breakdown of tolerance has been attributed to an imbalance of effector function and immune regulation, specifically defective regulation due to Treg subset defects. Multiple efforts have been forged to re-instate that balance in settings such as autoimmune disease and organ transplantation or disrupt it as a means to promote anti-tumor immunity. We have focused on Treg instability in the autoimmune and cancer settings and targeting of the FOXP3 pathway to selectively enhance Treg function and have also looked at novel approaches to understanding FOXP3 activity and delivering specific signals to Tregs to promote Treg stability and function.

https://bluestone.ucsf.edu/

Radiation Science and Medicine Working Group (RSM) Representative

Authors*: **Mary Helen Barcellos-Hoff**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5841
Presentation Date/Time: April 1, 2019, 5:20 PM - 6:00 PM
Location: Room A307 - Georgia World CC
Presentation: Special Session

Barcellos-Hoff Research Interests: My lab studies breast cancer, mammary biology radiation carcinogenesis, and mechanisms to biologically augment radiotherapy. I discovered that transforming growth factor β (TGFβ) is activated by radiation and mediates the DNA damage response, as well as the composition of the tumor microenvironment, particularly immune cell phenotypes. Detailed understanding of TGFβ contributions to tumor response to therapy in preclinical models of breast, brain, lung and head and neck cancer provide rationales for clinical trials of TGFβ inhibitors in radiotherapy that we are testing. We also study the mammary gland in terms of stromal-epithelial interactions, regulation of mammary hierarchy and differentiation, and the functions of TGFβ and BRCA1. Additionally, we are interested in application of systems biology approaches to problems in radiation research. I am the chair elect of the AACR Radiation Science and Medicine Working Group.

http://cancer.ucsf.edu/people/profiles/barcellos-hoff_mary.6915

*UCSF authors in bold

Radiation Science and Medicine Working Group (RSM) Town Hall Meeting and Reception

Authors*: David R. Gius, **Mary Helen Barcellos-Hoff**

Abstract #: TM07
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/session/1241
Presentation Date/Time: April 1, 2019, 5:30 PM - 7:30 PM
Location: Imperial Ballroom AB- Marriott
Presentation: Town Meeting

Barcellos-Hoff Research Interests: My lab studies breast cancer, mammary biology radiation carcinogenesis, and mechanisms to biologically augment radiotherapy. I discovered that transforming growth factor β (TGFβ) is activated by radiation and mediates the DNA damage response, as well as the composition of the tumor microenvironment, particularly immune cell phenotypes. Detailed understanding of TGFβ contributions to tumor response to therapy in preclinical models of breast, brain, lung and head and neck cancer provide rationales for clinical trials of TGFβ inhibitors in radiotherapy that we are testing. We also study the mammary gland in terms of stromal-epithelial interactions, regulation of mammary hierarchy and differentiation, and the functions of TGFβ and BRCA1. Additionally, we are interested in application of systems biology approaches to problems in radiation research. I am the chair elect of the AACR Radiation Science and Medicine Working Group.

http://cancer.ucsf.edu/people/profiles/barcellos-hoff_mary.6915

TUESDAY | APRIL 2, 2019

Identification of KRAS membrane bound states using an integrated computational and experimental approach

Authors*: Andrew G. Stephen, Animesh Agarwal, Angel E. Garcia, Gnana S. Gnanakaran, Jeevapani Hettige, Christopher Neale, Timothy Travers, Harsh Bhatia, Peer-Timo Bremer, Tim Carpenter, Jim Glosli, Helgi Ingolfsson, Piyush Karande, Felice Lightstone, Tomas Oppelstrup, Liam Stanton, Shiv Sundram, Xiaohua Zhang, Debsindhu Bhowmik, Arvind Ramanathan, Christopher Stanley, Debanjan Goswami, Gulcin Gulten, Frantz Jean-Francios, Dhirendra Simanshu, Tommy Turbyville, Rebika Shrestha, Que Van, **Frank McCormick**, Dwight Nissley, Fred Streitz, Constance Agamasu

Abstract #: 3373
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6033
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 31
Presentation: Poster Session

*UCSF authors in bold

A high prevalence of chromosomal translocations as drivers in high-risk pediatric solid cancers

Authors*: Laura B. Corson, Alma Imamovic-Tuco, Gianna R. Strand, Deirdre Reidy, Duong Doan, Mark A. Applebaum, Rochelle Bagatell, Brian D. Crompton, Steven G. DuBois, Julia L. Glade Bender, AeRang Kim, Theodore W. Laetsch, Lobin A. Lee, Neal I. Lindeman, Laura E. MacConaill, Margaret E. Macy, Luke Maese, Seth Pinches, Navin Pinto, **Amit J. Sabnis**, Eliezer M. Van Allen, Susan I. Vear, Daniel A. Weiser, Catherine M. Clinton, Katherine A. Janeway, Alanna J. Church

Abstract #: 3104
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5957
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 19
Presentation: Poster Session

Sabnis Research Interests: Dr. Sabnis's research uses patient-derived models to identify and pre-clinically validate new therapies for high-risk pediatric sarcomas. His newly established research group in the HDFCCC focuses on the essential nature of specific nodes within the protein homeostasis network for the initiation and survival of pediatric sarcomas. In addition, he sees patients within the Early Phase Clinical Trials group of the UCSF Benioff Children's Hospital Division of Pediatric Hematology-Oncology.

http://cancer.ucsf.edu/people/profiles/sabnis_amit.7897

Body mass index, weight loss, and progression and mortality in metastatic colorectal cancer: Results from CALGB/SWOG 80405 (Alliance)

Authors*: Brendan Guercio, Sui Zhang, **Alan P. Venook**, Fang-Shu Ou, Donna Niedzwiecki, Heinz-Josef Lenz, Federico Innocenti, Hanna Sanoff, Michelle R. Mahoney, Bert H. O'Neil, James E. Shaw, Blase N. Polite, Howard S. Hochster, James N. Atkins, Richard M. Goldberg, Robert J. Mayer, Charles D. Blanke, Charles S. Fuchs, Jeffrey A. Meyerhardt

Abstract #: 3285
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1801
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 27
Presentation: Poster Session

Venook Research Interests: Dr. Alan Venook is an internationally renowned expert in colorectal and liver cancers at the UCSF Helen Diller Family Comprehensive Cancer Center. He is highly regarded for his expertise in the effective use of the newest approaches and therapies to the treatment of colorectal cancer, as well treating primary and metastatic tumors to the liver. Dr. Venook has led and/or authored six major studies within the cooperative groups and served as Chair of the GI Committee of the Alliance for Clinical Trials in Oncology (formerly CALGB) from 2010-2015.

http://cancer.ucsf.edu/people/profiles/venook_alan.3698

*UCSF authors in bold

KZR-8834: A novel, small molecule inhibitor of Sec61-dependent protein secretion with anti-tumor activity

Authors*: Eric Lowe, Janet L. Anderl, Andrea R. Fan, Jing Jiang, Henry W. B. Johnson, Christopher J. Kirk, Dustin McMinn, Tony Muchamuel, **Jack Taunton**, Jennifer A. Whang

Abstract #: 3087
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7525
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 14
Presentation: Poster Session

A requirement for STAG2 in replication fork progression creates a targetable synthetic lethality with DNA repair factors in cohesin-mutant cancers

Authors*: **Gourish Mondal**, **Alan Ashworth**, **David A. Solomon**

Abstract #: 3489
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6546
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 34
Presentation: Poster Session

*UCSF authors in bold

Dianhydrogalactitol (VAL-083) in combination with AZD1775 increases survival in diffuse intrinsic pontine glioma (DIPG), in vivo

Authors*: Anne Steino, **Xiaodong Yang**, **Cassie Kline**, Jeffrey Bacha, Dennis M. Brown, **Sabine Mueller**

Abstract #: 3499
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/969
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 35
Presentation: Poster Session

Mueller Research Interests: The laboratory of Dr. Sabine Mueller focuses on translational research in pediatric neuro-oncology. A key focus is the development and characterization of patient derived xenograft (PDX) models for diffuse intrinsic pontine gliomas (DIPG) and other pediatric high grade gliomas (pHGGs). In particular, the Mueller lab investigates the genomic heterogeneity of DIPGs and other pHGGs. Additionally, they are exploring the utility of liquid biopsies by assessing circulating tumor DNA and correlating this with disease response. Further, the laboratory is exploring central nervous system (CNS) directed delivery strategies, such as convection enhanced delivery (CED) in combination with nanotechnology, in these PDX models. The laboratory has several industry partnerships to test new agents as single agents and in combination therapy strategies with other agents as well as radiation therapy.

http://cancer.ucsf.edu/people/profiles/mueller_sabine.4800

Combined high-throughput DNA genotyping and protein quantification in single cancer cells

Authors*: **Benjamin Demaree**, **Cyrille Delley**, David Ruff, Sebastian Treusch, Dennis Eastburn, Keith Jones, **Adam Abate**

Abstract #: 3527
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3534
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 36
Presentation: Poster Session

*UCSF authors in bold

Elevated miR-141-3p inhibits renal cell carcinoma aggressiveness by targeting epithelial-to-mesenchymal transition pathway

Authors*: **Pritha Dasgupta**, **Priyanka Kulkarni**, **Shahana Majid**, **Varahram Shahryari**, Nadeem S. Bhat, **Yutaka Hashimoto**, **Marisa Shiina**, **Guoren Deng**, **Sharanjot Saini**, **Soichiro Yamamura**, **Yuichiro Tanaka**, **Rajvir Dahiya**

Abstract #: 3549
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7116
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 37
Presentation: Poster Session

Dahiya Research Interests: My group, which is part of the Urology Research Center at the VAMC/UCSF under the leadership of Dr. Peter Caroll, focuses on mechanisms of growth control in GU disorders, especially prostate and renal cancer. We have developed various novel methods for evaluating epigenetic pathways, microRNAs, gene regulation, and function in these diseases both in in vitro and in vivo models. In particular we are studying the role of microRNAs in the progression and metastasis of prostate cancer, diet, miRNAs, epigenetic changes in prostate cancer and wnt antagonist genes in kidney tumor progression and metastasis.

https://urology.ucsf.edu/people/rajvir-dahiya

Role of novel microRNA 4287 at a frequently deleted chromosome 8p region in prostate cancer

Authors*: **Divya Bhagirath**, **Thao Yang**, **Laura Tabatabai**, **Shahana Majid**, **Soichiro Yamamura**, **Rajvir Dahiya**, **Yuichiro Tanaka**, **Sharanjot Saini**

Abstract #: 3565
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7133
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 37
Presentation: Poster Session

Saini Research Interests: A major clinical challenge in prostate cancer is the elucidation of pathways of tumor progression, recurrence and metastasis, which could lead to the design of better diagnostic and therapeutic strategies against the disease. Towards this, our current research is primarily focused on delineating the molecular mechanisms driving prostate cancer progression, recurrence and metastasis. We are particularly interested in understanding key microRNA-mediated molecular pathways in prostate cancer with a long term objective of development of microRNAs as alternative biomarkers for the disease. We have identified important microRNA regulators of prostate cancer metastasis and also elucidated the regulatory role of key microRNAs in prostate cancer stem cells.

http://cancer.ucsf.edu/people/profiles/saini_sharanjot.8680

*UCSF authors in bold

Harnessing protease activity profiling for the early diagnosis of pre-malignant pancreatic cysts

Authors*: **Francesco Caiazza**, **Sam L. Ivry**, **Jeremy M. Sharib**, Giselle M. Knudsen, **Tyler York**, **Matthew Ravalin**, **Katrin Jaredeh**, Anthony J. O'Donoghue, **Kimberly S. Kirkwood**, **Charles S. Craik**

Abstract #: 3311
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5978
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 28
Presentation: Poster Session

Craik Research Interests: The research interests of my lab focus on defining the roles and the mechanisms of enzymes in complex biological processes and on developing technologies to facilitate these studies. The primary emphasis of our work has been on enzymes, with a particular emphasis on macromolecular recognition. Our original protein engineering studies have evolved to encompass various proteases as well as their endogenous inhibitors and membrane bound receptors, including uPAR, and have recently been successful at developing functional imaging probes for breast, colon, and prostate cancer using novel technologies. Our antibody engineering studies have identified Fabs that recognize conformational states of the target enzyme or receptor and are being developed into functional probes for in vivo imaging. The methodologies we developed to identify these functional Fabs have also been applied to enzymes and membrane proteins for structural and functional studies.

https://pharm.ucsf.edu/craik

Normal breast tissue at risk for cancer development: A breast cancer initiating role for mammary adipocytes?

Authors*: Taekyu Kang, **Christina Yau**, Stephen Benz, **Gregor Krings**, Roman Camarda, Jill E. Henry, Mark Powell, Christopher C. Benz

Abstract #: 3314
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5981
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 28
Presentation: Poster Session

*UCSF authors in bold

A prescription for new trial designs for drug development focused on the neoadjuvant setting: Save lives, resources, and time

Authors*: Andreas Karlsson, **Yiwey Shieh**, **Andre Dempsey**, **Christina Yau**, Angela Dmichele, Doug Yes, **Laura van't Veer**, Nola Hylton, Martin Eklund, **Laura Esserman**

Abstract #: 3361
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7723
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 30
Presentation: Poster Session

Esserman Research Interests: Dr. Esserman, surgeon & breast cancer oncology specialist, is the Carol Franc Buck Breast Care Center Director and co-leads the Breast Oncology Program. Her research is on improving healthcare value through integrating translational science, clinical informatics, systems re-engineering & clinical care delivery. In 2005, she received the NCI SPORE Investigator of the Year Award. In 2016 she received the Arbuckle Award from Stanford Graduate School of Business for Excellence in Management & was named to TIME's 100 most influential people list. She is PI of the I-SPY TRIAL program, now a model for translational research & innovation in clinical trial design. She launched the Athena Breast Health Network to follow women from screening through treatment & outcomes, incorporating the latest in molecular testing & web-based tools. Athena just launched the WISDOM study to compare personalized vs annual breast cancer screening in 100,000 women and to predict who gets what kind of cancer.

http://profiles.ucsf.edu/laura.esserman

Factors driving industry participation in the collaborative I-SPY2 platform trial

Authors*: Jurr M. C. van Ramshorst, **Laura J. van 't Veer**, Dave Mandelkern, **Laura J. Esserman**, Daniel Dornbusch

Abstract #: 3362
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7724
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 30
Presentation: Poster Session

Esserman Research Interests: Dr. Esserman, surgeon & breast cancer oncology specialist, is the Carol Franc Buck Breast Care Center Director and co-leads the Breast Oncology Program. Her research is on improving healthcare value through integrating translational science, clinical informatics, systems re-engineering & clinical care delivery. In 2005, she received the NCI SPORE Investigator of the Year Award. In 2016 she received the Arbuckle Award from Stanford Graduate School of Business for Excellence in Management & was named to TIME's 100 most influential people list. She is PI of the I-SPY TRIAL program, now a model for translational research & innovation in clinical trial design. She launched the Athena Breast Health Network to follow women from screening through treatment & outcomes, incorporating the latest in molecular testing & web-based tools. Athena just launched the WISDOM study to compare personalized vs annual breast cancer screening in 100,000 women and to predict who gets what kind of cancer.

http://profiles.ucsf.edu/laura.esserman

*UCSF authors in bold

Breast cancer and the human oral and gut microbiomes

Authors*: **Michael J. Campbell**, **Emma McCune**, **Breanna Johnson**, **Tess O'Meara**, Diane Heditsian, **Susie Brain**, **Laura Esserman**

Abstract #: 2830
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4570
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 4
Presentation: Poster Session

Esserman Research Interests: Dr. Esserman, surgeon & breast cancer oncology specialist, is the Carol Franc Buck Breast Care Center Director and co-leads the Breast Oncology Program. Her research is on improving healthcare value through integrating translational science, clinical informatics, systems re-engineering & clinical care delivery. In 2005, she received the NCI SPORE Investigator of the Year Award. In 2016 she received the Arbuckle Award from Stanford Graduate School of Business for Excellence in Management & was named to TIME's 100 most influential people list. She is PI of the I-SPY TRIAL program, now a model for translational research & innovation in clinical trial design. She launched the Athena Breast Health Network to follow women from screening through treatment & outcomes, incorporating the latest in molecular testing & web-based tools. Athena just launched the WISDOM study to compare personalized vs annual breast cancer screening in 100,000 women and to predict who gets what kind of cancer.

http://profiles.ucsf.edu/laura.esserman

Targeted drug therapies for osteosarcoma

Authors*: **Leanne C. Sayles**, **Amanda Koehne**, **Kieren Marini**, **Alex G. Lee**, **Stanley G. Leung**, **Avanthi T. Shah**, **Marcus R. Breese**, **E. Alejandro Sweet-Cordero**

Abstract #: 2880
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3689
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 6
Presentation: Poster Session

Sweet-Cordero Research Interests: My lab works to identify novel therapeutic approaches for cancer that target the genetic mutations & altered signaling networks specific to cancer cells. We use functional genomics applied to mouse & human systems to understand transcriptional networks regulating the outcome of specific oncogenic mutations & to understand how cancers become treatment resistant. We have 2 primary disease interests: lung cancer & pediatric sarcomas. Our lung cancer work focuses on elucidating the tissue-specific oncogenic effects of KRAS in lung cancer. We have identified synthetic vulnerabilities in the Ras pathway & are particularly interested in understanding how other genetic mutations cooperate with Ras. We also study intra-tumor heterogeneity & the possible role of stem-like cells in lung pathogenesis. Our lab has identified a novel potential therapy for lung cancer based on blocking fibroblast-epithelial cell signaling. Our pediatric cancer work is focused on using genomic approaches to identify novel oncogenic drivers in osteosarcoma & Ewing sarcoma. We have established patient-derived xenograft models for these & other pediatric solid tumors.

https://cancer.ucsf.edu/people/profiles/sweetcordero_alejandro.8106

*UCSF authors in bold

Non-genetic TPX2/AURKA signaling facilitates tumor evolution in EGFR-TKI resistance in NSCLC

Authors*: **Khyati N. Shah**, **Roma Bhatt**, **Julia Rotow**, **Julia Rohrberg**, **Victor Olivas**, **Victoria E. Wang**, **Jonathan Kuhn**, **Sophie Dumont**, **Frank McCormick**, **Andrei Goga**, **Collin M. Blakely**, **Trever G. Bivona**, **Sourav Bandyopadhyay**

Abstract #: 2902
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4025
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 7
Presentation: Poster Session

Bandyopadhyay Research Interests: The Bandyopadhyay lab focuses on new experimental and computational approaches to map pathway rewiring in cancer and use them to identify therapeutic biomarkers and new synthetic lethal opportunities.

http://cancersignaling.net

Identification and functional characterization of prognostic long non coding RNA LADDER in lung cancer

Authors*: Sathiya Pandi Narayanan, Sudhanshu Shukla, Jean Tien, Palak Shah, Sunita Shankar, Sethuramasundaram Pitchaiya, Srihari Srinivasan, Yuping Zhang, Xiaoming Wang, Lanbo Xiao, Xuhong Cao, Susan Freier, Andrew Watt, Shuling Guo, **Felix Feng**, David Beer, Saravana M. Dhanasekaran, Arul M. Chinnaiyan

Abstract #: 3573
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/7204
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 38
Presentation: Poster Session

Feng Research Interests: Dr. Felix Feng is a leader in translational research in prostate cancer. The primary aim of Dr. Feng's research program is to individualize therapy for patients with aggressive disease, by identifying determinants of treatment resistance and developing strategies to overcome this resistance. To enhance current clinical approaches from a biological perspective, his laboratory and dedicated research team are pursuing three major goals: 1) to identify novel molecular biomarkers of aggressive prostate cancer, 2) to understand the mechanisms by which several of these biomarkers drive disease progression, and 3) to develop therapeutic approaches to target these disease drivers.

https://radonc.ucsf.edu/felix-feng

*UCSF authors in bold

Evaluation of talazoparib in combination with irinotecan in early stage, high-risk HER2 negative breast cancer: Results from the I-SPY 2 TRIAL

Authors*: Richard Schwab, Amy S. Clark, **Christina Yau**, **Nola Hylton**, **Wen Li**, **Denise Wolfe**, **A. Jo Chien**, Anne M. Wallace, Andres Forero-Torres, Erica Stringer-Reasor, Rita Nanda, Nora Jaskowiak, Judy Boughey, Tufia Haddad, Heather S. Han, Catherine Lee, Kathy Albain, Claudine Isaacs, Anthony D. Elias, Erin D. Ellis, Payal Shah, Julie E. Lang, Janice Lu, Debasish Tripathy, Kathleen Kemmer, Douglas Yee, Barbara Haley, **Melanie Majure**, Erin Roesch, Christos Vaklavas, **Cheryl Ewing**, Teresa Helsten, W. Fraser Symmans, Jane Perlmutter, **Hope S. Rugo**, **Michelle Melisko**, Amy Wilson, **Ruby Singhrao**, **Laura van 't Veer**, Angela DeMichele, Smita Asare, Don Berry, **Laura J. Esserman**

Abstract #: CT136
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9937
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 16
Presentation: Poster Session

Esserman Research Interests: Dr. Esserman, surgeon & breast cancer oncology specialist, is the Carol Franc Buck Breast Care Center Director and co-leads the Breast Oncology Program. Her research is on improving healthcare value through integrating translational science, clinical informatics, systems re-engineering & clinical care delivery. In 2005, she received the NCI SPORE Investigator of the Year Award. In 2016 she received the Arbuckle Award from Stanford Graduate School of Business for Excellence in Management & was named to TIME's 100 most influential people list. She is PI of the I-SPY TRIAL program, now a model for translational research & innovation in clinical trial design. She launched the Athena Breast Health Network to follow women from screening through treatment & outcomes, incorporating the latest in molecular testing & web-based tools. Athena just launched the WISDOM study to compare personalized vs annual breast cancer screening in 100,000 women and to predict who gets what kind of cancer.

http://profiles.ucsf.edu/laura.esserman

Prevalence of PIK3CA mutations in patients with hormone receptor-positive, human epidermal growth factor-2-negative advanced breast cancer from the SOLAR-1 trial

Authors*: **Hope S. Rugo**, Ingrid Mayer, Pierfranco Conte, Sibylle Loibl, Mario Campone, Dejan Juric, Fabrice Andre, Marilyn Fritzemeier, Wei He, Naveen Babbar, Eva Ciruelos

Abstract #: CT142
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9943
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 16
Presentation: Poster Session

Rugo Research Interests: Hope S. Rugo, MD, is a medical oncologist specializing in breast cancer (BC) research and treatment. She is a Professor of medicine, the Director of Breast Oncology and Clinical Trials Education at UCSF and a principal investigator of multiple clinical trials focusing on combining novel targeted therapeutics with standard treatment to improve BC treatment. Her current research interests include immunotherapy and combinations of targeted agents to overcome resistance, plus studies focusing on reducing toxicity from therapy, which resulted in approval of scalp cooling to reduce chemotherapy induced hair loss, and a steroid mouthwash to reduce targeted agent stomatitis. She is an investigator and the chair of the Safety Committee for the phase II I-SPY2 trial, and also serves on the Novel Agents Committee. Dr. Rugo is the co-chair of the Triple Negative Working Group and an active member of the Translational Breast Cancer Research Consortium. She is also an active member of the Alliance Breast Committee.

http://cancer.ucsf.edu/people/profiles/rugo_hope.3648

*UCSF authors in bold

Prevalence of PD-L1 expression in 1st-line (1L) locally advanced/unresectable or metastatic urothelial carcinoma (UC)

Authors*: Petros Grivas, Alicia K. Morgans, Yair Lotan, Jeffrey Gregg, Daniel Geynisman, **Terence Friedlander**, Piyush K. Agarwal, Marija Tesic-Schnell, Andrew Bernstein, Doris Makari, Joshua J. Meeks

Abstract #: CT178
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/10018
Presentation Date/Time: April 2, 2019, 8:00 AM - 12:00 PM
Location: Section 17
Presentation: Poster Session

Friedlander Research Interests: I am a clinical and translational oncologist specializing in cancers of the genitourinary tract, specifically bladder and prostate cancers. My research is focused on understanding the basic biology of these malignancies and in developing novel therapeutic ways to treat disease. I have a research focus in developing novel immunotherapeutic approaches, particularly in bladder cancer, as well as in developing novel biomarkers, such as circulating tumor cells, to help understand how to better select patients for therapy. As a clinical academic oncologist I serve as principal investigator or co-investigator on a number of clinical trials in advanced prostate and bladder cancer, which allows us to recruit patients for much of our biomarker work.

http://cancer.ucsf.edu/people/profiles/friedlander_terence.4963

Translational research in neuroendocrine tumors: Implications for clinical trial design

Authors*: **Emily K. Bergsland**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1423
Presentation Date/Time: April 2, 2019, 11:30 AM - 11:55 AM
Location: Room A311 - Georgia World CC
Presentation: Advances in Organ Site Research

Bergsland Research Interests: My research is focused on the development and testing of novel, biologically based therapies for gastrointestinal malignancies, with an emphasis on neuroendocrine tumors (NETs). I am Chair of the Neuroendocrine Tumor (NET) Task Force of the NCI Gastrointestinal Steering Committee, a NCCN Neuroendocrine Tumors Guidelines Panel member, and a member of the Board of Directors for the North American Neuroendocrine Tumor Society. I am also study chair for ALLIANCE A021202 (a randomized Phase II trial of pazopanib vs. placebo in patients with progressive carcinoid tumors). My current research focuses on assessing novel treatment strategies for both high and low grade neuroendocrine neoplasms, fostering several collaborations with laboratory-based colleagues, and taking advantage of a fully annotated outcomes database (established in 2010 and encompassing 800+ NET patients treated at UCSF since 2004).

http://cancer.ucsf.edu/gi/emily-bergsland

*UCSF authors in bold

Radiation Science and Medicine Working Group Scientific Session: Biological Repercussions of Aging and Age-Related Processes on Therapeutic Irradiation

Authors*: **Mary Helen Barcellos-Hoff**, Chairperson and Moderator

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/session/1145
Presentation Date/Time: April 2, 2019, 10:30 AM – 12:30 PM
Location: Room C302 - Georgia World CC
Presentation: Special Session

Barcellos-Hoff Research Interests: My lab studies breast cancer, mammary biology radiation carcinogenesis, and mechanisms to biologically augment radiotherapy. I discovered that transforming growth factor β (TGFβ) is activated by radiation and mediates the DNA damage response, as well as the composition of the tumor microenvironment, particularly immune cell phenotypes. Detailed understanding of TGFβ contributions to tumor response to therapy in preclinical models of breast, brain, lung and head and neck cancer provide rationales for clinical trials of TGFβ inhibitors in radiotherapy that we are testing. We also study the mammary gland in terms of stromal-epithelial interactions, regulation of mammary hierarchy and differentiation, and the functions of TGFβ and BRCA1. Additionally, we are interested in application of systems biology approaches to problems in radiation research. I am the chair elect of the AACR Radiation Science and Medicine Working Group.

http://cancer.ucsf.edu/people/profiles/barcellos-hoff_mary.6915

Rescue of cognitive function following fractionated brain irradiation in a novel preclinical glioma model

Authors*: **Susanna Rosi**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9715
Presentation Date/Time: April 2, 2019, 11:45 AM - 12:20 PM
Location: Room C302 - Georgia World CC
Presentation: Special Session

Rosi Research Interests: My laboratory is located in the Brain and Spinal Injury Center (BASIC) at UCSF, and our research is focused on understanding how innate immune system activation and macrophages polarization affect information processing and cognition from a cellular and network perspective by using different animal models of brain injury. To examine the above effects, my laboratory employs three principle animal models: traumatic brain injury, therapeutic cranial γ-irradiation, and ionizing space radiation. Our ultimate goal is to understand the mechanisms responsible for the cognitive dysfunction observed after brain injury to identify diagnostic tools for treatment and prevention.

http://cancer.ucsf.edu/people/profiles/rosi_susanna.4738

*UCSF authors in bold

Gilteritinib significantly prolongs overall survival in patients with FLT3-mutated (FLT3mut+) relapsed/refractory (R/R) acute myeloid leukemia (AML): Results from the Phase III ADMIRAL trial

Authors*: Alexander E. Perl, Giovanni Martinelli, Jorge E. Cortes, Andreas Neubauer, Ellin Berman, Stefania Paolini, Pau Montesinos, Maria R. Baer, Richard A. Larson, Celalettin Ustun, Francesco Fabbiano, Antonio Di Stasi, Robert Stuart, **Rebecca Olin**, Margaret Kasner, Fabio Ciceri, Wen-Chien Chou, Nikolai Podoltsev, Christian Recher, Hisayuki Yokoyama, Naoko Hosono, Sung-Soo Yoon, Je-Hwan Lee, Timothy Pardee, Amir T. Fathi, Chaofeng Liu, Xuan Liu, Erkut Bahceci, Mark J. Levis

Abstract #: CT184
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9835
Presentation Date/Time: April 2, 2019, 11:39 AM - 12:02 PM
Location: Marcus Auditorium- Bldg A-GWCC
Presentation: Clinical Trials Plenary Session

Olin Research Interests: Dr. Rebecca Olin specializes in treating acute leukemias, myelodysplastic and myeloproliferative disorders, and aplastic anemia, as well as patients who may require bone marrow transplantation. In her research, Dr. Olin has particular interests in the treatment of older adults with blood cancers, including those undergoing bone marrow transplant. Her work focuses on the impact of patient-reported functional status on post-transplant outcomes.

http://cancer.ucsf.edu/people/profiles/olin_rebecca.3372

Recognition and evasion: Engineering smarter CAR T cells

Authors*: **Wendell Lim**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/8200
Presentation Date/Time: April 2, 2019, 1:00 PM - 2:45 PM
Location: Murphy Ballrm- Bldg B- GWCC
Presentation: Major Symposium

Lim Research Interests: Living cells use genetically encoded molecular networks to monitor their environment and make sophisticated decisions. We are using synthetic biology approaches to understand how these decision-making networks function, with goal of asking how we can use this understanding to engineer new therapeutically useful cellular behaviors. We are developing a general toolkit and framework for cell engineering in order to program next generation therapeutic cells, including immune cells that can more precisely and safely sense and destroy cancer, cells that can disrupt targeted disease microenvironments, and cells that can build and regenerate tissue structures.

http://limlab.ucsf.edu/index.html

*UCSF authors in bold

Driver oncogenes specify differential requirements for GATOR2-mTORC1 activation in rhabdomyosarcoma

Authors*: **Amit J. Sabnis**

Abstract #:
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9566
Presentation Date/Time: April 2, 2019, 2:30 PM - 2:50 PM
Location: Room C302 - Georgia World CC
Presentation: Special Session

Sabnis Research Interests: Dr. Sabnis's research uses patient-derived models to identify and pre-clinically validate new therapies for high-risk pediatric sarcomas. His newly established research group in the HDFCCC focuses on the essential nature of specific nodes within the protein homeostasis network for the initiation and survival of pediatric sarcomas. In addition, he sees patients within the Early Phase Clinical Trials group of the UCSF Benioff Children's Hospital Division of Pediatric Hematology-Oncology.

http://cancer.ucsf.edu/people/profiles/sabnis_amit.7897

Previously identified common glioma risk SNPs are associated with familial glioma

Authors*: Quinn T. Ostrom, Georgina Armstrong, Christopher I. Amos, Jonine L. Bernstein, Elizabeth B. Claus, Jeanette E. Eckel-Passow, Dora Il'yasova, Christoffer Johansen, Daniel H. Lachance, Rose K. Lai, Ryan T. Merrell, Sara H. Olson, Joellen H. Schildkraut, Sanjay S. Shete, Richard S. Houlston, Robert B. Jenkins, **Margaret R. Wrensch**, Beatrice Melin, Jill S. Barnholtz-Sloan, Melissa L. Bondy

Abstract #: 4173
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1916
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 26
Presentation: Poster Session

*UCSF authors in bold

Tumor and risk factor characteristics among breast cancer patients from different geographic regions in Peru

Authors*: **Valentina Zavala**, Tatiana Vidaurre, Katie Marker, Jeannie Vásquez, L. Tamayo4, Renzo Florez, Sandro Casavilca, M. Calderon, J. Abugattas, H. Gómez5, H. Fuentes, C. Monge-Pimentel, **S. Song**, D. Cherry, **Laura Fejerman**

Abstract #: 4184
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1945
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 27
Presentation: Poster Session

Fejerman Research Interests: Dr. Fejerman focuses on the discovery of genetic and non-genetic factors that contribute to breast cancer risk and prognosis in Latinas. Her past work established a relationship between genetic ancestry and breast cancer risk, where higher European ancestry in U.S. and Mexican Latinas was associated with an increased risk. Her subsequent research has built upon this observation, exploring genetic variants, through admixture mapping and genome-wide association approaches, as well as the possible environmental and lifestyle related factors, and ancestry-gene interactions. Recent work explores disparities in breast cancer prognosis by genetic ancestry in Latinas and its potential causes.

http://fejerman.ucsf.edu

Amphiregulin in damaged tumor microenvironment potentiates therapeutic resistance and enables PD-L1-mediated immunosuppression

Authors*: Qixia Xu, **Jean-Philippe Coppé**, Judith Campisi, Eric Lam, Yu Sun

Abstract #: 3819
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1583
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 10
Presentation: Poster Session

*UCSF authors in bold

Discovery and characterization of novel anti-cancer small molecule inhibitors of Sec61

Authors*: Eric Lowe, Janet L. Anderl, Andrea R. Fan, Ying Fang, Jing Jiang, Henry W. B. Johnson, Christopher J. Kirk, Dustin McMinn, Tony Muchamuel, Meera Rao, **Phillip P. Sharp**, **Jack Taunton**, Jinhai Wang, Jennifer A. Whang

Abstract #: 3860
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5414
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 12
Presentation: Poster Session

Single cell immune profiling of patients with advanced biliary cancers treated with combination checkpoint inhibition and GM-CSF reveals diverse T cell and myeloid cell mechanisms of action

Authors*: **Bridget P. Keenan**, **Whitney Tamaki**, **Eric Liu**, **Brandon Chen**, **Alexander Cheung**, **John D. Gordan**, **Brenna Sheldon**, **Li Zhang**, **Robin K. Kelley**, **Lawrence Fong**

Abstract #: 4063
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3739
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 22
Presentation: Poster Session

Fong Research Interests: My lab focuses on how the immune system interacts with cancer as well as exploring tumor immunotherapies in mouse models and in patients. Our primary focus is in immunotherapy of solid malignancies. We investigate how immunotherapies such as immune checkpoint inhibitors and cancer vaccines can enhance anti-tumor immunity both systemically and in the tumor microenvironment. Performing neoadjuvant immunotherapy trials, we determine how specific therapies can recruit immune effectors in cancer patients. Moreover, we have studied how clinical responders may differ from clinical non-responders. We are applying unbiased approaches to studying antigen-specific responses that are modulated in these patients and are currently developing biomarkers that may be predictive of clinical efficacy.

http://cancer.ucsf.edu/people/profiles/fong_lawrence.3521

*UCSF authors in bold

Protein folding pathway modulation upon Hsp70 inhibition in cancer cells

Authors*: Sara Sannino, Christopher J. Guerriero, **Amit J. Sabnis**, Jeffrey J. Bridsky

Abstract #: 4268
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6448
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 31
Presentation: Poster Session

Sabnis Research Interests: Dr. Sabnis's research uses patient-derived models to identify and pre-clinically validate new therapies for high-risk pediatric sarcomas. His newly established research group in the HDFCCC focuses on the essential nature of specific nodes within the protein homeostasis network for the initiation and survival of pediatric sarcomas. In addition, he sees patients within the Early Phase Clinical Trials group of the UCSF Benioff Children's Hospital Division of Pediatric Hematology-Oncology.

http://cancer.ucsf.edu/people/profiles/sabnis_amit.7897

Targeting MYC overexpressing leukemia with cardiac glycoside proscillaridin through downregulation of histone acetyltransferases

Authors*: Elodie Marie Da Costa, Gregory Armaos, Gabrielle McInnes, Annie Beaudry, Gael Moquin-Beaudry, Virginie Bertrand-Lehouillier, Maxime Caron, Pascal St-Onge, **Jeffrey R. Johnson**, **Nevan Krogan**, Yuka Sai, Michale Downey, Moutih Rafei, Meaghan Boileau, Kolja Eppert, Ema Florez-Diaz, Andre Haman, Trang Hoang, Daniel Sinnett, Christian Beausejour, Serge McGraw1, Noel J. M. Raynal

Abstract #: 4332
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3826
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 33
Presentation: Poster Session

Krogan Research Interests: Research in the Krogan lab focuses on high-throughput network biology to derive mechanistic insights into cellular processes and disease conditions, with a particular emphasis on cancer, pathogenesis, psychiatric disorders and heart disease. Cancer research and treatment is increasingly dependent on knowledge of biological networks of multiple types, including physical interactions among proteins and synthetic-lethal and epistatic interactions among genes. Dr. Krogan is Co-Director of the Cancer Cell Map Initiative (CCMI), which aims to comprehensively detail these complex interactions among cancer genes and proteins using a combination of physical interaction, genetic interaction, and computational approaches. This work will enable the analysis of cancer molecular networks with a view towards pathway and network-based personalized therapy.

http://kroganlab.ucsf.edu

*UCSF authors in bold

Oscillatory HIF-1α induction promotes proliferation of hypoxic cells through a lactate dependent quorum autophagy response

Authors*: Kshitiz, **Junaid Afzal**, Yasir Suhail, Hao Chang, Chi V. Dang, Andre Levchenko

Abstract #: 4359
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5750
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 35
Presentation: Poster Session

Tumor mutational burden (TMB), T cell-inflamed gene expression profile (GEP) and PD-L1 are independently associated with response to pembrolizumab (Pembro) in patients with advanced melanoma in the KEYNOTE (KN)-006 study

Authors*: Antoni Ribas, Caroline Robert, Jacob Schachter, Georgina V. Long, Ana Arance, Matteo S. Carlino, James Larkin, Andrea L. Webber, Jared Lunceford, Qing Zhao, Razvan Cristescu, Michael Nebozhyn, Chunsheng Zhang, Wendy Blumenschein, Clemens Krepler, Nageatte Ibrahim, **Adil Daud**, Jean-Jacques Grob

Abstract #: 4217
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/6007
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 26
Presentation: Poster Session

Daud Research Interests: Our group at UCSF is focused on developing new immunotherapy agents and specifically understanding the biology of the immune response to PD-1 in melanoma. We developed IL- 12 gene therapy in melanoma and carried out the first in human clinical trial in 2005-2007. Based on this work, IL-12 electroporation is being explored in many cancers as an immune agent and as a combination treatment with PD-1 and other checkpoint inhibitors in melanoma. I have been involved in the development of anti-PD-1 antibodies for melanoma. With my colleagues Michael Rosenblum and Max Krummel at UCSF, we have developed a novel assay that profiles the intra-tumoral microenvironment in depth and can predict non-response to PD-1. We are currently exploring novel strategies for PD-1 non responsive subsets of melanoma (and potentially other cancers).

http://cancer.ucsf.edu/people/profiles/daud_adil.3622

*UCSF authors in bold

The mTOR-activating GATOR2 complex is essential in PAX3-FOXO1-positive rhabdomyosarcoma

Authors*: **Amit J. Sabnis**, **David V. Allegakoen**, **Trever G. Bivona**

Abstract #: 3656
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3680
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 2
Presentation: Poster Session

Bivona Research Interests: Our team uses the tools of precision medicine to improve the molecular diagnosis and targeted therapy of patients with solid cancers, including lung cancer. Our program focuses on identifying and functionally characterizing the molecular drivers of tumor growth in individual patients. We study patient samples and clinical data to identify novel potential drivers of tumor initiation, progression, and therapy resistance. We functionally annotate the putative molecular drivers using an integrated approach of genetic and pharmacologic tools. This precision approach to understanding the molecular pathogenesis of lung cancer (and other cancers) has led to the discovery of new biomarkers and targets that provide rationale for novel clinical trials we are launching to improve patient survival.

http://www.bivonalab.net/

Integrative analysis of whole-genome and RNA sequencing in high-risk pediatric malignancies

Authors*: **Marcus R. Breese**, **Avanthi T. Shah**, **Alex G. Lee**, **Bogdan Tanasa**, **Stanley G. Leung**, **Aviv Spillinger**, **Heng-Yi Liu**, **Inge Behroozfard**, **Phuong Dinh**, Florette K. Hazard, Arun Rangaswami, Sheri L. Spunt, Norman J. Lacayo, **Tabitha Cooney**, **Jennifer G. Michlitsch**, **Anurag K. Agrawal**, **E. Alejandro Sweet-Cordero**

Abstract #: 3665
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3701
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 2
Presentation: Poster Session

Sweet-Cordero Research Interests: My lab works to identify novel therapeutic approaches for cancer that target the genetic mutations & altered signaling networks specific to cancer cells. We use functional genomics applied to mouse & human systems to understand transcriptional networks regulating the outcome of specific oncogenic mutations & to understand how cancers become treatment resistant. We have 2 primary disease interests: lung cancer & pediatric sarcomas. Our lung cancer work focuses on elucidating the tissue-specific oncogenic effects of KRAS in lung cancer. We have identified synthetic vulnerabilities in the Ras pathway & are particularly interested in understanding how other genetic mutations cooperate with Ras. We also study intra-tumor heterogeneity & the possible role of stem-like cells in lung pathogenesis. Our lab has identified a novel potential therapy for lung cancer based on blocking fibroblast-epithelial cell signaling. Our pediatric cancer work is focused on using genomic approaches to identify novel oncogenic drivers in osteosarcoma & Ewing sarcoma. We have established patient-derived xenograft models for these & other pediatric solid tumors.

https://cancer.ucsf.edu/people/profiles/sweetcordero_alejandro.8106

*UCSF authors in bold

The Pediatric Brain Tumor Atlas - Transforming the landscape of research

Authors*: Yuankun Zhu, Yiran Guo, Allison P. Heath, Pichai Raman, Elizabeth Appert, Jennifer Mason, Bo Zhang, Karthik Kalletla, Miguel A. Brown, Natasha Singh, Bailey K. Farrow, Parimala Killada, Meen Chul Kim, Alex Felmeister, Mateusz P. Koptyra, **Sabine Mueller**, **Michael Prados**, Jena V. Lilly, Rishi Lulla, Adam C. Resnick, Javad Nazarian, Phillip B. Storm, Angela J. Waanders

Abstract #: 3667
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3703
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 2
Presentation: Poster Session

Prados Research Interests: Dr. Prados is an internationally known Neuro-oncology expert. He led the Adult Brain Tumor Consortium for over 15 years and founded the Pacific Pediatric Neuro-Oncology Consortium (PNOC), a multi-institutional consortium of now 15 major academic centers across the United States. Currently Dr. Prados is Professor Emeritus at UCSF devoting his efforts towards pediatric Neuro-Oncology clinical and translational research. He is the co-Project Leader of a pediatric brain tumor SPORE project at UCSF and is co-Project Leader of the PNOC. His major interests are early phase clinical trials research and the translational studies that precede and inform those trials in both adults and children. He is part of the Editorial board of Neuro-Oncology, Journal of Neuro-Oncology and Journal of Clinical Oncology, and a member of the NCI/CTEP Brain Malignancies Steering Committee. In 2014 he was awarded the Victor Levin Award for lifetime clinical research excellence from the Society of Neuro-Oncology.

http://cancer.ucsf.edu/people/profiles/prados_michael.3603

RNA molecular signatures as predictive biomarkers of response to monotherapy pembrolizumab in patients with metastatic triple-negative breast cancer: KEYNOTE-086

Authors*: Sherene Loi, Peter Schmid, Javier Cortés, David W. Cescon, Eric P. Winer, Deborah Toppmeyer, **Hope S. Rugo**, Michelino De Laurentiis8 Rita Nanda, Hiroji Iwata, Ahmad Awada, Antoinette Tan, Chunsheng Zhang, Andrey Loboda, Andrew Albright, Razvan Cristescu, Maureen Lane, Anran Wang, Jared Lunceford, Gursel Aktan, Vassiliki Karantza, Sylvia Adams

Abstract #: LB-225
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9112
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 41
Presentation: Poster Session

Rugo Research Interests: Hope S. Rugo, MD, is a medical oncologist specializing in breast cancer (BC) research and treatment. She is a Professor of medicine, the Director of Breast Oncology and Clinical Trials Education at UCSF and a principal investigator of multiple clinical trials focusing on combining novel targeted therapeutics with standard treatment to improve BC treatment. Her current research interests include immunotherapy and combinations of targeted agents to overcome resistance, plus studies focusing on reducing toxicity from therapy, which resulted in approval of scalp cooling to reduce chemotherapy induced hair loss, and a steroid mouthwash to reduce targeted agent stomatitis. She is an investigator and the chair of the Safety Committee for the phase II I-SPY2 trial, and also serves on the Novel Agents Committee. Dr. Rugo is the co-chair of the Triple Negative Working Group and an active member of the Translational Breast Cancer Research Consortium. She is also an active member of the Alliance Breast Committee.

http://cancer.ucsf.edu/people/profiles/rugo_hope.3648

*UCSF authors in bold

5-year survival and other long-term outcomes from KEYNOTE-006 study of pembrolizumab (pembro) for ipilimumab (ipi)-naive advanced melanoma

Authors*: Caroline Robert, Jacob Schachter, Georgina V. Long, Ana Arance, Jean-Jacques Grob, Laurent Mortier, **Adil Daud**, Matteo S. Carlino, Catriona McNeil, Michal Lotem, James Larkin, Paul Lorigan, Bart Neyns, Christian U. Blank, Omid Hamid, Teresa M. Petrella, James Anderson, Clemens Krepler, Scott J. Diede, Antoni Ribas

Abstract #: CT188
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9957
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 16
Presentation: Poster Session

Daud Research Interests: Our group at UCSF is focused on developing new immunotherapy agents and specifically understanding the biology of the immune response to PD-1 in melanoma. We developed IL- 12 gene therapy in melanoma and carried out the first in human clinical trial in 2005-2007. Based on this work, IL-12 electroporation is being explored in many cancers as an immune agent and as a combination treatment with PD-1 and other checkpoint inhibitors in melanoma. I have been involved in the development of anti-PD-1 antibodies for melanoma. With my colleagues Michael Rosenblum and Max Krummel at UCSF, we have developed a novel assay that profiles the intra-tumoral microenvironment in depth and can predict non-response to PD-1. We are currently exploring novel strategies for PD-1 non responsive subsets of melanoma (and potentially other cancers).

http://cancer.ucsf.edu/people/profiles/daud_adil.3622

KEYNOTE-495/KeyImPaCT: Phase II biomarker-directed precision oncology study of pembrolizumab-based combination therapy for non-small cell lung cancer

Authors*: Martin Gutierrez, Matthew D. Hellmann, **Matthew Gubens**, Charu Aggarwal, Daniel Shao Weng Tan, Enriqueta Felip, Joanne Wing Yan Chiu, Jong-Seok Lee, James Chih-Hsin Yang, Edward Garon, Andrea D. Basso, Hua Ma, **Lawrence Fong**, Alex Snyder, Jianda Yuan, Roy S. Herbst

Abstract #: CT227
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/10040
Presentation Date/Time: April 2, 2019, 1:00 PM - 5:00 PM
Location: Section 17
Presentation: Poster Session

Gubens Research Interests: Matthew Gubens is a thoracic oncologist who treats patients with lung cancer, mesothelioma and other thoracic malignancies, including thymoma and thymic carcinoma, which are rare tumors of the mediastinum. His research involves designing clinical trials to study new compounds and treatment strategies in lung cancer. He and his colleagues have a special interest in translational medicine, and are actively working to translate laboratory-based findings to the clinic, especially for patients with epidermal growth factor receptor (EGFR) mutations. The group is also active in trials evaluating new immunotherapy approaches in thoracic malignancies. Dr. Gubens is a member of the American Society of Clinical Oncology, the International Association for the Study of Lung Cancer and the International Thymic Malignancy Interest Group.

http://profiles.ucsf.edu/matthew.gubens

*UCSF authors in bold

Association of the tumor-immune microenvironment with response to niraparib and pembrolizumab in relapsed, platinum-resistant ovarian cancer

Authors*: Anniina Farkkila, Jia R. Lin, Julia Casado1, Huy Nguyen, Yinghui Zhou, Julie R. Graham, Bruce J. Dezube, Steven Waggoner, **Pamela Munster**, Gini F. Fleming, Sandro Santagata, Ursula A. Matulonis, Peter K. Sorger, Elizabeth M. Swisher, Alan D. D'Andrea, Panagiotis Konstantinopoulos

Abstract #: 4487
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/2231
Presentation Date/Time: April 2, 2019, 3:00 PM - 5:00 PM
Location: Room A411 - Georgia World CC
Presentation: Minisymposium

Munster Research Interests: Our lab is interested in developing novel strategies to overcome hormone therapy resistance in breast cancer.

http://cancer.ucsf.edu/people/profiles/munster_pamela.3449

Distinct structural classes of activating FOXA1 alterations in prostate cancer progression

Authors*: Abhijit Parolia, Marcin Cieslik, Shih-Chun Chu, Lanbo Xiao, Takahiro Ouchi, Yuping Zhang, Xiaoju Wang, Pankaj Vats, Xuhong Cao, Fengyun Su, Rui Wang, **Felix Feng**, Yi-Mi Wu, Robert Lonigro, Dan R. Robinson, Arul M. Chinnaiyan

Abstract #: 4497
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1065
Presentation Date/Time: April 2, 2019, 3:00 PM - 5:00 PM
Location: Room A302 - Georgia World CC
Presentation: Minisymposium

Feng Research Interests: Dr. Felix Feng is a leader in translational research in prostate cancer. The primary aim of Dr. Feng's research program is to individualize therapy for patients with aggressive disease, by identifying determinants of treatment resistance and developing strategies to overcome this resistance. To enhance current clinical approaches from a biological perspective, his laboratory and dedicated research team are pursuing three major goals: 1) to identify novel molecular biomarkers of aggressive prostate cancer, 2) to understand the mechanisms by which several of these biomarkers drive disease progression, and 3) to develop therapeutic approaches to target these disease drivers.

https://radonc.ucsf.edu/felix-feng

*UCSF authors in bold

Implementation Science for Evidence-Based Cancer Prevention and Early Detection Practices in Defined Diverse Populations

Authors*: Moderator: **Robert A. Hiatt.** Speakers: Melissa A. Simon, Ernest T. Hawk, Robert A. Hiatt

Abstract #: FO01-86
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/session/60
Presentation Date/Time: April 2, 2019, 3:00 PM - 5:00 PM
Location: Georgia Ballrm 1- Bldg C- GWCC
Presentation: Forum

Hiatt Research Interests: I am Professor of Epidemiology and Biostatistics at UCSF. I was the first deputy director of the NCI's Division of Cancer Control and Population Sciences (1998-2003), where, among other things, I oversaw the extramural cancer epidemiology, health services research, and surveillance programs. I have been the HDFCCC Associate Director of Population Sciences since 2003 and Chair of Epidemiology & Biostatistics 2006-2017. I have a demonstrated record in breast cancer, health disparities, environmental health research, global health science, and in leading successful and productive large-scale, multi-component research projects. This includes the Bay Area Breast Cancer and the Environment Research Center, and its Coordination Center from 2004 to 2016. I currently direct the San Francisco Cancer Initiative (SF CAN) and am the UCSF PI for the national Precision Medicine Initiative, *All of Us*. I am strongly interested in the conduct of and training in transdisciplinary, team, and translational science.

http://cancer.ucsf.edu/people/profiles/hiatt_robert.3488

WEDNESDAY | APRIL 3, 2019

Involvement of PI3K/Akt pathway in cadmium triggered aggressive prostate cancer

Authors*: **Priyanka Kulkarni**, **Pritha Dasgupta**, Nadeem S. Bhat, **Yutaka Hashimoto**, **Sharanjot Saini**, Altaf A. Dar, **Varahram Shahryari**, **Marisa Shiina**, **Soichiro Yamamura**, **Yuichiro Tanaka**, **Rajvir Dahiya**, **Shahana Majid**

Abstract #: 5040
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1839
Presentation Date/Time: April 3, 2019, 8:00 AM - 12:00 PM
Location: Section 26
Presentation: Poster Session

Majid Research Interests: The Majid lab, located Urology Research Center at the VAMC/UCSF, focuses in the area of urological cancers to understand the etiology and to develop novel molecular biomarkers for initiation, progression and metastasis with special emphasis on prostate cancer. We have been working in the field of microRNAs, genetics and epigenetics of urologic cancers. Cancer progression markers are identified by employing genome-wide approaches, and utilizing cells culture and mouse models as well as tissues from patients. The objective of the lab is to identify novel therapeutic targets or valuable biomarkers to establish rational therapeutic strategies for the diagnosis and treatment of cancer.

http://profiles.ucsf.edu/shahana.majid

*UCSF authors in bold

Immune profiles in the San Francisco Adult Glioma Study using Immunomethylomics

Authors*: **John K. Wiencke**, **Annette Molinaro**, **Warrier Gayathri**, **Jennifer Clarke**, **Jennie Taylor**, Devin Koestler, Joe Wiemels, **Helen Hanson**, **Lee Sean**, **Terri Rice**, **Lucie McCoy**, Lucas Salas, **Margaret Wrensch**, Brock Christensen, Karl T. Kelsey

Abstract #: 5052
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/1983
Presentation Date/Time: April 3, 2019, 8:00 AM - 12:00 PM
Location: Section 26
Presentation: Poster Session

Wiencke Research Interests: Dr. Wiencke's background is in cytogenetics, radiation biology, and molecular epidemiology. His research has focused on biomarkers of exposure to chemical toxins and tobacco smoke and on genetic susceptibility to environmental exposures. Wiencke is the director of the laboratory providing support for epidemiological and clinical studies in neuroepidemiology. His laboratory is currently studying molecular subgroups of glioma and aberrant gene methylation.

http://cancer.ucsf.edu/people/profiles/wiencke_john.3748

Subclonal sociability: Interactions of HER2 and PIK3CA mutant cells in breast cancer

Authors*: Ian Waters, Swathi Karthikeyan, Lauren Dennison, **David Chu**, Ben Ho Park

Abstract #: 5149
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/4098
Presentation Date/Time: April 3, 2019, 8:00 AM - 12:00 PM
Location: Section 33
Presentation: Poster Session

*UCSF authors in bold

N-CoR2 epigenetically regulates adhesion-dependent branching morphogenesis and its loss correlates with malignant progression of the mammary gland

Authors*: Shenq-Shyang Huang, **Valerie M. Weaver**, Kelvin K.C. Tsai

Abstract #: 5184
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3719
Presentation Date/Time: April 3, 2019, 8:00 AM - 12:00 PM
Location: Section 35
Presentation: Poster Session

Weaver Research Interests: The extracellular matrix (ECM), the noncellular component of the microenvironment, influences cell growth, survival, migration and tissue-specific differentiation through a repertoire of cellular receptors including integrins, syndecans and discoidin receptors. We are exploring the molecular mechanisms whereby these ECM receptors modulate cell fate: specifically, how mechanical and topological properties of the matrix, which are related to its composition and organization, regulate the function of matrix receptors to alter cell behavior. Our research program is broadly divided into two fields of inquiry: (1) how matrix composition and organization influences mammary tissue development and tumor progression and (2) to clarify the role of matrix force on embryonic and adult stem cell fate. More recently, we have broadened our program to include an exploration into the interplay between tissue fibrosis, tissue tension and immune regulation.

http://weaverlab.ucsf.edu

1H and 13C MRS-based metabolic markers of IDH1 mutant glioma response to temozolomide therapy

Authors*: **Elavarasan Subramani**, **Chloe Najac**, **Georgios Batsios**, **Pavithra Viswanath**, **Marina Radoul**, **Anne Marie Gillespie**, **Russell O. Pieper**, **Sabrina M. Ronen**

Abstract #: 5263
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/5774
Presentation Date/Time: April 3, 2019, 8:00 AM - 12:00 PM
Location: Section 38
Presentation: Poster Session

Ronen Research Interests: The goal of the research performed in the Ronen lab is to develop and mechanistically validate robust noninvasive translatable magnetic resonance (MR)–based biomarkers that can be used to identify oncogenic events associated with cancer, and to monitor response to a broad range of therapies including chemotherapy, targeted therapies, immunotherapies etc.

To this end, our research uses multinuclearMR spectroscopy (MRS), imaging (MRI) and spectroscopic imaging (MRSI) to probe preclinical cell and animal models of cancer. Putative biomarkers are mechanistically validated using established biochemical, cell and molecular biological methods.

http://cancer.ucsf.edu/people/profiles/ronen_sabrina.3638

Cadmium induced malignant transformation involves activation of the Erk/MAPK pathway

Authors*: **Pritha Dasgupta**, **Priyanka Kulkarni**, Nadeem S. Bhat, **Ravi Gupta**, **Yutaka Hashimoto**, **Sharanjot Saini**, Altaf A. Dar, **Varahram Shahryari**, **Soichiro Yamamura**, **Yuichiro Tanaka**, **Marisa Shiina**, **Rajvir Dahiya**, **Shahana Majid**

Abstract #: 4659
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/3969
Presentation Date/Time: April 3, 2019, 8:00 AM - 12:00 PM
Location: Section 7
Presentation: Poster Session

Majid Research Interests: The Majid lab, located Urology Research Center at the VAMC/UCSF, focuses in the area of urological cancers to understand the etiology and to develop novel molecular biomarkers for initiation, progression and metastasis with special emphasis on prostate cancer. We have been working in the field of microRNAs, genetics and epigenetics of urologic cancers. Cancer progression markers are identified by employing genome-wide approaches, and utilizing cells culture and mouse models as well as tissues from patients. The objective of the lab is to identify novel therapeutic targets or valuable biomarkers to establish rational therapeutic strategies for the diagnosis and treatment of cancer.

http://profiles.ucsf.edu/shahana.majid

ARAF activates RAS by antagonizing its interaction with NF1

Authors*: Wenjing Su, Rona Yaeger, Na Na, Jaclyn Hechtman, Viktoriya Paroder, Sandra Misale, **Sae-Won Han**, Omar I. Abdel-Wahab, **Frank McCormick**, Neal Rosen, Zhan Yao

Abstract #: LB-265
Abstract link: https://www.abstractsonline.com/pp8/#!/6812/presentation/9173
Presentation Date/Time: April 3, 2019, 8:00 AM - 12:00 PM
Location: Section 7
Presentation: Late-Breaking Poster Session

*UCSF authors in bold

SUMMARY OF ABSTRACTS BY FACULTY MEMBER

Adam Abate, PhD

3527 Combined high-throughput DNA genotyping and protein quantification in single cancer cells

Rahul Aggarwal, MD

CT095 A Phase Ib/IIa study of the BET bromodomain inhibitor ZEN-3694 in combination with enzalutamide in patients with metastatic castration-resistant prostate cancer (mCRPC)

Charalambos Andreadis, MD

CT078 Cyfi: Results from a Phase Ib expansion cohort of anti-hepatocyte growth factor and cytarabine in relapsed and refractory AML

Alan Ashworth, PhD

— Therapeutic implications of DNA repair defects in cancer

1372 Detection of early stage pancreatic cancer using 5–hydroxymethylcytosine signatures in circulating cell free DNA

Sourav Bandyopadhyay, PhD

2902 Non-genetic TPX2/AURKA signaling facilitates tumor evolution in EGFR-TKI resistance in NSCLC

Mary Helen Barcellos-Hoff, PhD

— Radiation Science and Medicine Working Group (RSM) Representative

TM07 Radiation Science and Medicine Working Group (RSM) Town Hall Meeting and Reception

— Radiation Science and Medicine Working Group Scientific Session: Biological Repercussions of Aging and Age-Related Processes on Therapeutic Irradiation

Emily K. Bergsland, MD

— Translational research in neuroendocrine tumors: Implications for clinical trial design

Trever Bivona, MD, PhD

2664 Differential activation of the integrated stress response correlates with anti-tumor activity of imipridones ONC201 and ONC206 in pediatric sarcomas

3656 The mTOR-activating GATOR2 complex is essential in PAX3-FOXO1-positive rhabdomyosarcoma

Collin Blakely, MD

CT131 Entrectinib in NTRK-fusion positive (NTRK-FP) non-small cell lung cancer (NSCLC): Integrated analysis of patients enrolled in three trials (STARTRK-2, STARTRK-1 and ALKA-372-001)

Jeffrey Bluestone, PhD

LE03 T Cell-Mediated Immune Tolerance in Health and Disease

— CTLA-4 and T regulatory cells in autoimmunity and cancer

Jocelyn S. Chapman, MD

733 Characterizing the genetic profile of endometrioid ovarian carcinoma using exome sequencing

Xin Chen, PhD

1721 FOXO1, a downstream substrate of AKT, function as tumor suppressor in HCC carcinogenesis

Iona Cheng, PhD

1574 Circadian clock gene expression and lethal prostate cancer outcomes

Eric Collisson, MD

2466 Designing an intuitive visualization of BRCAness scores for clinicians

2522 RNA rescue somatic mutations and RNA editing in esophageal cancer

Charles S. Craik, PhD

3311 Harnessing protease activity profiling for the early diagnosis of pre-malignant pancreatic cysts

Rajvir Dahiya, PhD

761 Up-regulation of miR-10a affect on prostate cancer racial disparity

780 High expression of miR-155 promotes prostate cancer aggressiveness in African-Americans compared to Caucasians

1827 LncRNA TCL6 / microRNA155 axis regulates the PI3K/ AKT pathway in clear cell renal carcinoma

3549 Elevated miR-141-3p inhibits renal cell carcinoma aggressiveness by targeting epithelial-to-mesenchymal transition pathway

Adil Daud, MD

4217 Tumor mutational burden (TMB), T cell-inflamed gene expression profile (GEP) and PD-L1 are independently associated with response to pembrolizumab (Pembro) in patients with advanced melanoma in the KEYNOTE (KN)-006 study

CT188 5-year survival and other long-term outcomes from KEYNOTE-006 study of pembrolizumab (pembro) for ipilimumab (ipi)-naive advanced melanoma

Jayanta Debnath, MD

— Autophagy and secretion in cancer

Laura Esserman, MD, MBA

CT003 Analysis of immune cell infiltrates as predictors of response to the checkpoint inhibitor pembrolizumab in the neoadjuvant I-SPY 2 TRIAL

SSPOL-01 AACR-ONS Special Session: The Evolving Landscape of Survivorship Research

3361 A prescription for new trial designs for drug development focused on the neoadjuvant setting: Save lives, resources, and time

3362 Factors driving industry participation in the collaborative I-SPY2 platform trial

2830 Breast cancer and the human oral and gut microbiomes

CT136 Evaluation of talazoparib in combination with irinotecan in early stage, high-risk HER2 negative breast cancer: Results from the I-SPY 2 TRIAL

Laura Fejerman, PhD

— Breast cancer health disparities: Past, present, and future

460 Understanding transcriptomic profiles that might explain discordance of the PAM50 and immunohistochemistry classification methods in luminal tumors from Colombian women

1589 Breast cancer subtype GWAS in Peruvian breast cancer patients

4184 Tumor and risk factor characteristics among breast cancer patients from different geographic regions in Peru

Felix Feng, MD

1851 Novel roles of DNA-PK in metabolic regulation in prostate cancer

2291 Single cell capture and molecular analysis of live CTCs using integrated microwells and single cell aspirator

2539 Discovery of degradation pathway for maternal embryonic leucine zipper kinase (MELK): Implications for breast cancer therapy

CT129 Identifying molecular determinants of response to apalutamide (APA) in patients (pts) with nonmetastatic castration-resistant prostate cancer (nmCRPC) in the SPARTAN study

3573 Identification and functional characterization of prognostic long non coding RNA LADDER in lung cancer

4497 Distinct structural classes of activating FOXA1 alterations in prostate cancer progression

Lawrence Fong, MD

550 Tumor-conditional anti-CTLA-4 uncouples anti-tumor efficacy from immunotherapy-related toxicity

518 Hypoxia and high interstitial pressure present within the tumor microenvironment can promote T cell suppression and exhaustion

CT098 KEYNOTE-046: Effects of ADXS-PSA with or without pembrolizumab on survival and antigen spreading in metastatic, castration-resistant prostate cancer patients

4063 Single cell immune profiling of patients with advanced biliary cancers treated with combination checkpoint inhibition and GM-CSF reveals diverse T cell and myeloid cell mechanisms of action

Terence Friedlander, MD

CT178 Prevalence of PD-L1 expression in 1st-line (1L) locally advanced/unresectable or metastatic urothelial carcinoma (UC)

Jason Gestwicki, PhD

2245 Improving the effectiveness of immunotherapy in breast cancer by targeting the tumor microenvironment

Theodore Goldstein, PhD

1695 Linking clinical molecular profiles of tumors to the electronic medical record

Scarlett L. Gomez, PhD

— Building infrastructures to address multilevel determinants of cancer health disparities

Matthew Gubens, MD

CT227 KEYNOTE-495/KeyImPaCT: Phase II biomarker-directed precision oncology study of pembrolizumab-based combination therapy for non-small cell lung cancer

Robert A. Hiatt, MD, PhD

FO01-86 Implementation Science for Evidence-Based Cancer Prevention and Early Detection Practices in Defined Diverse Populations

Daniel E. Johnson, PhD

726 HNSCC-associated caspase-8 mutations mediate resistance to apoptosis and up-regulation of immunosuppressive cytokines

Hyunseok Kang, MD

1191 PD-L1 expression and the tumor immune microenvironment in NUT carcinoma

Andrew Ko, MD

CT004 A Phase Ib study of CD40 agonistic monoclonal antibody APX005M together with gemcitabine (Gem) and nab-paclitaxel (NP) with or without nivolumab (Nivo) in untreated metastatic ductal pancreatic adenocarcinoma (PDAC) patients

Gregor Krings, MD, PhD

3314 Normal breast tissue at risk for cancer development: A breast cancer initiating role for mammary adipocytes?

Nevan Krogan, PhD

4332 Targeting MYC overexpressing leukemia with cardiac glycoside proscillaridin through downregulation of histone acetyltransferases

Wendell Lim, PhD

— Recognition and evasion: Engineering smarter CAR T cells

Mignon Loh, MD

— Juvenile myelomonocytic leukemia: Learning from patients in a world without walls

Steven Long, MD

CT133 Interim results of a Phase I/II trial of intratumoral CpG, local low-dose radiation, and oral ibrutinib in patients with low-grade B-cell lymphoma

Donald M. MacDonald, MD, PhD

— Mechanism of anti-tumor action of oncolytic vaccinia viruses

Shahana Majid, PhD

5040 Involvement of PI3K/Akt pathway in cadmium triggered aggressive prostate cancer

4659 Cadmium induced malignant transformation involves activation of the Erk/MAPK pathway

Frank McCormick, PhD

1768 Biochemical and structural analysis of the Neurofibromin (NF1) protein and a potential role for protein destabilization in Rasopathy diseases

— Overview and RAS inhibitors

3373 Identification of KRAS membrane bound states using an integrated computational and experimental approachh

LB-265 ARAF activates RAS by antagonizing its interaction with NF1

Sabine Mueller, MD, PhD

249 Combination of ONC201 with radiation exhibits synergistic efficacy in high grade gliomas and other advanced cancers

2464 Gabriella Miller Kids First Data Resource Center: Harmonizing clinical and genomic data to support childhood cancer and structural birth defect research

3499 Dianhydrogalactitol (VAL-083) in combination with AZD1775 increases survival in diffuse intrinsic pontine glioma (DIPG), in vivo

Pamela N. Munster, MD

CTPL01 Predictive Biomarkers for Immunotherapy

CT048 Phase I expansion study of irinotecan liposome injection (nal-IRI) in patients with metastatic breast cancer (mBC)

4487 Association of the tumor-immune microenvironment with response to niraparib and pembrolizumab in relapsed, platinum-resistant ovarian cancer

Rebecca Olin, MD

CT184 Gilteritinib significantly prolongs overall survival in patients with FLT3-mutated (FLT3mut+) relapsed/refractory (R/R) acute myeloid leukemia (AML): Results from the Phase III ADMIRAL trial

Rushika M. Perera, PhD

— Proteomics based approaches to studying cancer lysosome

Michael Prados, MD

3667 The Pediatric Brain Tumor Atlas - Transforming the landscape of research

Sabrina M. Ronen, PhD

5263 1H and 13C MRS-based metabolic markers of IDH1 mutant glioma response to temozolomide therapy

Susanna Rosi, PhD

— Rescue of cognitive function following fractionated brain irradiation in a novel preclinical glioma model

Theodore Roth, MD, PhD

ESP03 GenScript: How to Use CRISPR to Accelerate Cancer Therapies- Large Knock-Ins in Human T Cells Using Non-Viral HDR Templates

Hope S. Rugo, MD

CT128 Palbociclib in combination with fulvestrant or tamoxifen as treatment for hormone receptor positive metastatic breast cancer with prior chemotherapy for advanced disease (TBCRC 035): A Phase II study with pharmacodynamic markers

CT142 Prevalence of PIK3CAmutations in patients with hormone receptor-positive, human epidermal growth factor-2-negative advanced breast cancer from the SOLAR-1 trial

LB-225 RNA molecular signatures as predictive biomarkers of response to monotherapy pembrolizumab in patients with metastatic triple-negative breast cancer: KEYNOTE-086

Amit J. Sabnis, MD

3104 A high prevalence of chromosomal translocations as drivers in high-risk pediatric solid cancers

— Driver oncogenes specify differential requirements for GATOR2-mTORC1 activation in rhabdomyosarcoma

4268 Protein folding pathway modulation upon Hsp70 inhibition in cancer cells

Sharanjot Saini, PhD

1807 miRNA alterations associated with transition of advanced castration-resistant prostate cancer to neuroendocrine prostate cancer

3565 Role of novel microRNA 4287 at a frequently deleted chromosome 8p region in prostate cancer

Nina D. Shah, MD

CT104 A Phase I open-label, safety, pharmacokinetic, and preliminary efficacy study of STRO-001, an anti-CD74 antibody drug conjugate, in patients with advanced B-cell malignancies

Yiwey Shieh, MD

2419 A polygenic risk score predicts breast cancer risk in Latinas

Kevan Michael Shokat, PhD

— Chemical methods to decipher the role of individual kinases and their cellular signaling networks

David A. Solomon, MD, PhD

3489 A requirement for STAG2 in replication fork progression creates a targetable synthetic lethality with DNA repair factors in cohesin-mutant cancers

Alejandro Sweet-Cordero, MD

— Introduction to pediatric cancer somatic genomics and the UCSF experience in clinical genomics of pediatric cancer

959 Proteomic and genetic interaction mapping of the Ras pathway reveals new effectors and vulnerabilities

2880 Targeted drug therapies for osteosarcoma

3665 Integrative analysis of whole-genome and RNA sequencing in high-risk pediatric malignancies

Jack Taunton, PhD

3087 KZR-8834: A novel, small molecule inhibitor of Sec61-dependent protein secretion with anti-tumor activity

3860 Discovery and characterization of novel anti-cancer small molecule inhibitors of Sec61

Jeffrey A. Tice, MD

589 Circulating progesterone is associated with increased postmenopausal breast cancer risk: B~FIT cohort

Laura van ‘t Veer, PhD

2679 Integration of DNA repair deficiency and immune biomarkers to predict which early-stage triple-negative breast cancer patients are likely to respond to platinum-containing regimens vs. immunotherapy: The neoadjuvant I-SPY 2 trial

Alan Venook, MD

3285 Body mass index, weight loss, and progression and mortality in metastatic colorectal cancer: Results from CALGB/SWOG 80405 (Alliance)

Kieuhoa T. Vo, MD

CT112 A Phase I multicenter trial of the dual MDM2/MDMX inhibitor ALRN-6924 in children and young adults with relapsed/refractory pediatric cancers

Valerie Weaver, PhD

1028 Extracellular matrix dimensionality reduces cellular cortical tension to stimulate pro-survival signaling in mammary epithelial cells

1900 A tension-mediated glycocalyx feedback loop promotes glioblastoma

5184 N-CoR2 epigenetically regulates adhesion-dependent branching morphogenesis and its loss correlates with malignant progression of the mammary gland

Zena Werb, PhD

— Ex vivo live imaging of the lung metastatic niche in mice to enable immuno-oncology drug discovery

John K. Wiencke, PhD

830 DNA methylation cytometry reveals cancer survival related to cell composition

5052 Immune profiles in the San Francisco Adult Glioma Study using Immunomethylomics

Arun P. Witta, MD, PhD

1554 Uncoupling tumor-cell cytotoxicity from cytokine release with novel T-cell engaging bispecific antibodies

John Witte, PhD

1371 Assessing the utility of cell-free DNA in identifying prostate cancer and characterizing tumor heterogeneity via whole exome and whole genome, multi-region sequencing

Margaret R. Wrensch, MPH, PhD

4173 Previously identified common glioma risk SNPs are associated with familial glioma

Travis Zack, MD, Phd

1737 Association of inherited variants with chromosomal breaks in cancer

Elad Ziv, MD

2686 Associations between a polygenic risk score and risk of multiple myeloma and its precursor


UCSF
University of California
San Francisco