

2024 Scientific Retreat

Hilton Waterfront Beach Resort Huntington Beach, CA



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The Waterfront Beach Resort

A Hilton Hotel

2110 Pacific Coast Highway | Huntington Beach, CA 714.845.8000 | WATERFRONTRESORT.COM



8:00 am	Registration & Continental Breakfast Vista Lawn
8:35 am	Director's Welcome & Overview Richard Van Etten, MD, PhD
9:30 am	Science & Policy Presentations Advancing Tobacco Policy Research to Reduce Disparities Denise Payán, PhD
	3D Spheroid DNA-Encoded Library Screening Technology: Hit Finding on the STING Pathway Brian Paegel, PhD
	How do Statins Trigger AML Cell Death? David Fruman, PhD
10:15 am	Coffee Break
10:30 am	Clinical Presentations Adding Pitavastin to Venetoclax-based Therapy for Leukemias: An Experience in Drug Repurposing Elizabeth Brem, MD
	Biliary Exosomes Unveil XP07 and SLK as Targetable Oncogenic Drivers in Cholangiocarcinoma Reed Ayabe, MD, PhD
	Chemoprevention Clinical Trials at UCI: Past, Present, Future Jason Zell, DO
11:15 am	CHOC Presentations Pegaspargase Therapy in Acute Lymphoblastic Leukemia: Drug Monitoring and Toxicity Van Huynh, MD
	Regulatory T Cells in GVL and GVHD Post-Allogenic Stem Cell Transplant for High-Risk Acute Leukemia Rishikesh Chavan, MD
11:35 am	Cultural Awareness and Humility in Research Ursula Worsham, EdD
11:35 am	Pre-Lunch Announcement



12:00 pm Lunch, Optional Discussion & Posters

Vista Lawn



Cliffs Community Think Tank (Optional) Office of COE & Community Members

Join us to engage with COE leaders on your projects

- Consult with community experts
- Collaborate and network
- Prepare for new NCI community engagement expectations
- Strengthen the community relevance of your research
- Get support for community-centered research



Wedge Trainee Voices (Optional) Ursula Worsham, EdD | AD for EDI Edward Nelson, MD | AD for CRTEC Claudia Benavente, PhD | Deputy AD for CRTEC

We want to hear from you. Your experience matters.

- Join us to share your lived experience at UC Irvine
- Your input helps us improve and create new programs
- What do you need to succeed at UC Irvine?
- How can the cancer center help you succeed?
- We look forward to hearing from you!

SBreakout Sessions

1:30 pm Pre-Breakout Session Announcement

Marian Waterman, PhD

1:45 pm Concurrent Breakout Sessions

Select one to attend



Breakwater

The Future Scope of AI and Machine Learning in the CFCCC

Anand Ganesan, MD, PhD & Brian Paegel, PhD

Join us to discuss integration of AI into cancer research, focusing on applications in imaging and drug discovery.

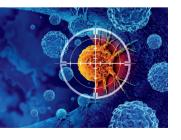


Wedge

Using Implementation Science to Accelerate Impact: Insights from Digital Health

Stephen Schueller, PhD

Join us to discuss the values of Implementation Science, a growing area of interest in Cancer Control with particular focus on Digital Health



Cliffs

Tumor Immunology & Novel Therapeutic Approaches

Angela Fleischman, MD, PhD & John Lowengrub, PhD

Join us to discuss collaborative grants with a focus on tumor immunology and novel cancer therapeutics. Come with your ideas!



3:00 pm Office of Community Outreach & Engagement (COE)

Sora Park Tanjasiri, DrPH

3:15 pm Shared Resources Showcase



Transgenic Mouse Facility

Shimako Kawauchi, PhD

TMF provides services for making, breeding, genotyping, importing and preserving genetically-modified mice and embryonic stem cells.



Optical Biology Core

Rahul Warrior, PhD

OBC is a matrix of four cores including: 1. Self-Use Facility; 2. Laboratory of Fluorescence Dynamics; 3. Non-Linear Optical Microscopy; and 4. Flow Cytometry Facility.



Genomics Research & Technology

Suzanne Sandmeyer, PhD

GRT Hub provides emerging and state-of-the-art genomics technologies and training.



Mass Spectrometry Facility

Felix Grun, PhD

MS is a matrix of three cores: 1. High-end MS; 2. Nutrient Metabolism & Disease Lab; 3. Chemistry MS



In Vivo Functional Onco-Imaging

Gultekin Gulsen, PhD

IVFOI offers expertise and training in cutting-edge imaging instrumentation and analysis.



Experimental Tissue Resource

Delia Tifrea, PhD, MBA

ETR supplies tissues/fluids, offers histology, immunohistochemistry, pathology services, and more.



Biostatistics Shared Resource

Min Zhang, MD PhD²

BSR provides biostatistical expertise for the experimental design and analysis of basic, translational, clinical and population-based cancer research.



Biobehavioral Shared Resource

Michael Hoyt, PhD

BBSR offers expertise and services in planning, conducting and disseminating translational behavioral research.



4:00 pm ∮Poster Flash Talks

09: Bye TAC: Bypassing an E3 Ligase for Target Protein Degradation

Cody Loy | PI: Darci Trader, PhD

26: Relationship Between Cytokines, Brain Derived Neurotrophic Factor, and Cognitive Impairment in Adolescent and Young Adult Cancer Patients

Julia Trudeau | Pl: Alexandre Chan, PharmD, MPH

64: Feasibility Study on the Effect of a Methionine-Reduced Diet on Serum Levels in Patients with Solid Tumors

Zhaohui Arter, MD | PI: Peter Kaiser, PhD

06: Targeting of Mitochondrial Protein Magmas Enhances Sensitivity to GBM Treatment

Javier Lepe | Daniela Bota, MD, PhD

36: Empower Latinx: Empowering Hispanic Patient's Lung Cancer Screening Uptake

Mahnur Bharucha | PI: Gelareh Sadigh, MD

58: A Phase 1 Study of the Combination of Pitavastin (Pita) with Gemcitabine and Nab-paclitaxel in Patients with Unresectable Pancreatic Adenocarcinoma (uPDAC)

Jennifer Valerin, MD, PhD

4:30 pm Concurrent Poster Session, Reception & Awards

Poster Session & Judging

Coastal

Reception & Awards

Breakwater Terrace

Your feedback is important to us.

Take the survey!



7Poster Session

01	Optimal Acoustic-Electric Parameters for Shear-Induced Delivery of mRNA-CAR to T-cells Mahnoor Mirza, Graduate Student
02	Three-dimensional Isotropic Imaging of Live Suspension Cells Enabled by Droplet Microvortices Braulio Cardenas Benitez, Graduate Student
03	Dual targeting of mitochondrial Lon peptidase 1 and chymotrypsin-like protease by small molecule BT317, as potential therapeutics in malignant gliomas Shashi Jain, Postdoctoral Scholar
04	Neuroprotective effects of N-acetylcysteine against cisplatin- induced cognitive impairments in an ovarian cancer rat model Naomi Lomeli, Postdoctoral Scholar
05	Targeting TRIM11 is a potential therapeutic strategy for malignant gliomas Kaijun Di, Research Assistant
06	Targeting of Mitochondrial Protein Magmas Enhances Sensitivity to GBM Treatment Javier Lepe, Graduate Student
07	Exploring PARP Inhibitors as a Potential Treatment for Chemotherapy-Induced Cognitive Deficits in Ovarian Cancer Models Dahlia Ordaz, Graduate Student
80	Development of Immunoproteasome Substrate Labeling Assays (iSLAy) Juan Dantis, Graduate Student
09	ByeTAC: Bypassing an E3 Ligase for Targeted Protein Degradation Cody Loy, Graduate Student
10	Miniaturized Tumor Organoids Maintain Drug Sensitivity Stratification Aarthi Namasivayam, Graduate Student
11	Cell-Based Drug Screening in Microfluidic Droplets For Personalized Cancer Therapies Kayla Gee, Graduate Student

Synergistic effect of fibrin glue released BLM-PCI and radiation

12

therapy

Sophia Laurel, Undergraduate

13	Computational Modeling Protein-DNA Machinery in Epigenetic
	and Genetic Regulation for Cancer Therapy
	Jin Yu, Assistant Professor

14 Sorting to enrich for chemotherapeutic-resistant glioma cells based on unique membrane properties Vi Dang, Graduate Student

- 15 Combined Treatment with Anti-PDI and Anti-CTLA-4 for Melanoma induces Cognitive Dysfunction and Neuroinflammation An Do, Research Assistant
- Protecting Synaptic Integrity Using Catalpol Can Reverse Doxorubicin - Induced Decline in Cognitive Functions. Anh Le. Research Assistant
- 17 Microglia-selective Deletion of Complement Clq Provides Neuroprotection Against Cranial Radiation-Induced Cognitive Decline in a Mouse Glioma Model Robert Krattli, Staff Research Associate
- 18 Targeting C5aR1 Signaling to Mitigate Chemotherapy-Induced Cognitive Impairments (CRCI) and Neuroinflammation Shreya Madan, Graduate Student
- 19 Adenosine kinase: a node of circadian (dys) function in irradiated cancer brain?
 Arva Vagadia. Laboratory Assistant
- 20 Neuroprotective impact of Riluzole on increasing BDNF and reversal of cancer-related cognitive impairments.
 Sanad El-Khatib, Laboratory Assistant
- 21 Adenosine Augmentation to Protect the CNS Against Organophosphate Exposure Kelly Nguyen, Staff Research Associate
- 22 Stopping chemobrain in its tracks: Stem cell-derived extracellular vesicles ameliorate breast cancer chemobrain
 Casey Hudson, Graduate Student
- 23 Neuropsychiatric Symptoms Associated with Marijuana Use
 Among Cancer Survivors: An Analysis of the NIH All of Us Research
 Program
 Carolyn Nguyen. Graduate Student
- 24 Accelerated Epigenetic Ageing within Adult and Young Adult
 Cancer Patients Predicts Cancer-Related Cognitive Impairment: A
 Prospective, Longitudinal Study
 Michael Sayer, Postdoctoral Scholar
- 25 Real-world impact of acupuncture on analgesics and healthcare resource utilization in breast cancer survivors with pain Ding Quan Ng, Graduate Student

Relationship Between Cytokines, Brain-Derived Neurotrophic Factor, and Cognitive Impairment in Adolescent and Young Adult Cancer Patients

Julia Trudeau, Graduate Student

27 The Power of Peers: How Social Influence Shapes Depression-Driven Behaviors in Young Cancer Survivors

Anamara Ritt-Olson, Associate Professor

28 A preliminary analysis on lung cancer incidence and visceral adipose tissue among postmenopausal women from the DXA cohort of the Women's Health Initiative

Wendy Lazouras, Graduate Student

29 Impact of Immune Related Adverse events on Survival in Cancer Patients Receiving Immune Checkpoint Inhibitors Kane Stalians, Graduate Student

Trends in Immune Checkpoint Inhibitor Use Based on Primary Cancer Type and Presence of Metastasis

Katelyn Dang, Graduate Student

31 Policy implementation matters: A systematic review of studies assessing implementation of US state and local flavored tobacco sales restriction policies

Ana Herrera, Postdoctoral Scholar

32 Patient-reported Barriers and Preferred Interventions to Improve Lung Cancer Screening Uptake

Axs Avenido, Undergraduate

33 Is Electronic Medical Record Smoking History Reliable in Identifying Patients Eligible for Lung Cancer Screening Victoria Nguyen, Junior Specialist

34 Assessing Providers' Knowledge about and Barriers to Lung Cancer Screening

Stephanie Jia, Graduate Student

35 Decoding Public Preferences in Breast Cancer Screening Cost Sharing

Kevin Dao, Resident Physician

36 Empower Latinx: Empowering Hispanic Patient's Lung Cancer Screening Uptake

Mahnur Bharucha, Junior Specialist

37 Does self-scheduling improve screening mammography completion rates? A retrospective analysis.

Gillean Cortes, Resident Physician

38 Interventions to Improve Lung Cancer Screening Richard Echeverria, Junior Specialist

39 Prevalence of Health-related Social Needs and Association with Imaging Appointment Cancellations Among Patients with Cancer Angelica Gordon, Resident Physician 40 Assessing key domains of health-related quality of life using National Institute of Health (NIH) PROMIS measures in youngadult (YA) cancer survivors in Southern California

Dalia Kagramanov, Postdoctoral Scholar

Skin protective behaviors and perceived risk of skin cancer by 41 race and ethnicity

Saba Sohail. Graduate Student

42 Integrating Latino Cultural Values in Behavioral Interventions for Young Adult Testicular Cancer Survivors

David Zoeter, Associate Specialist

43 The Impact of HPV on Oropharyngeal Cancer Tumor Microenvironment and Survival

Esther Lam, Graduate Student

44 Intense monitoring of JAK2V617F and Wild-type hematopoiesis during IFNa exposure to dissect mechanism of action Eli Sovfer. Graduate Student

45 Leveraging clonal competition between CHIP and aggressive clones as a novel therapeutic approach

Kalei Guillermo. Graduate Student

46 Impaired Interleukin-10 Receptor Signalling Reduces Hematopoietic Stem Cell Stemness and Leads to Inflammation Induced Exhaustion

Lucas Wadlev. Graduate Student

Overcoming Heterogeneity in Pancreatic Cancer by Targeting 47 Ref-1 and Mitochondrial Metabolism

Taryn Morningstar, Graduate Student

48 Uncovering HIF-2a's role in inflammation and precursor lesion formation in pancreatic cancer

Sabrina Calderon, Graduate Student

49 Targeting the epithelial-stromal cell crosstalk in metastatic pancreatic cancer

Rima Singh, Graduate Student

50 Targeting UHRF1's proteasomal destruction as a novel approach for small cell lung cancer treatment

Yiiun Gu. Graduate Student

51 Targeting UHRF1 for osteosarcoma therapeutics.

Danny Martinez, Graduate Student

52 Pitavastatin potentiates mitochondrial dysfunction and venetoclax cytotoxicity in acute myeloid leukemia cells. lan Wong, Graduate Student

Regulatory T cells modulate microglia function in breast cancer 53 brain metastasis

Isam Adam, Graduate Student

54	Investigating novel aspects of hypoxia in breast cancer metastasis
	Hannah Savage, Postdoctoral Scholar

55 Targeting the immune metastatic microenvironment in systemic breast cancer

Jacob Insua Rodriguez, Postdoctoral Scholar

56 Interruption of the intratumor CD8:Treg crosstalk improves the efficacy of PD-1 immunotherapy
Shannon Geels. Graduate Student

57 Identifying Critical Immunological Features of Tumor Control and Escape Using Mathematical Modeling

Rachel Sousa, Graduate Student

A Phase 1 Study of the Combination of Pitavastatin (Pita) with
Gemcitabine and nab-paclitaxel in patients with Unresectable
Pancreatic Adenocarcinoma (uPDAC)
Sophie Hasson, Research Assistant & Tanvi Chichili, Medical Student

59 Type 2 innate lymphoid cells fuel breast cancer development by inhibiting anti-cancer immunity
Pascal Naef. Postdoctoral Scholar

60 Defining healthy and breast tumor-associated neutrophils at a whole-organism, single-cell resolution
Alex Hsu. Graduate Student

The Ratio of Alternatively Spliced KRAS Isoforms Plays a Role in The Tumorigenesis of Colorectal Cancer
Harika Pulipelli, Graduate Student

62 Identification of genes that alter cancer cell sensitivity to DNA damage/OXPHOS inhibition using CRISPR screening Xiangduo Kong, Project Scientist

63 α-Ketoglutarate drives differentiation in colorectal cancer and sensitizes 5-FU induced cell death

Qi Fan, Graduate Student

Feasibility Study on the Effect of a Methionine-Reduced Diet on Serum Levels in Patients with Solid Tumors

Zhaohui Arter, Fellow Physician

65 Second-Site Rescue Mutants as Tools to Uncover Reactivation
Mechanisms of p53 Cancer Mutants
Fiona Law. Graduate Student

66 The Role of Melanocyte Stem Cells In Basal Cell Carcinoma Tumor Regression

Gavin Long, Graduate Student

67 Loss of XIST IncRNA unlocks stemness and cellular plasticity in ovarian cancer

Ikrame Naciri, Postdoctoral Scholar

AGC-family kinases STK38/L positively regulate YAP by targeting the LATS1-MOB1 complex

Jeongmin An, Postdoctoral Scholar





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