

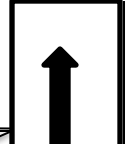
**2025 LUDWIG RETREAT**  
**POSTER SESSION I: NOON - 1:30 pm**

#	Primary author	Home lab	Poster title
1 (XL)	Zuen Ren	Ellisen	SIRT5 enhances chemoresistance through governing mitochondrial metabolism and the pentose phosphate pathway for abnormal nucleotide pool replenishing in refractory triple-negative breast cancer
2			
3	Ting Liu and Kevin Jiang	Ellisen	Sequential CRISPR Screens Reveal Synergies with TROP2-Targeted Antibody-Drug Conjugates
4	Chenxu Vincent Guo	Ellisen	HD-PTP modulates anti-tumor immunity via extracellular vesicles in triple-negative breast cancer
5	Bryce Ordway	Ellisen	Metabolic mechanisms underlying late recurrence in hormone receptor positive breast cancer
6	Gabriella Antonellis	Guerriero	Multiplexed and spatial mapping of macrophage cell states reveals mechanisms of therapy resistance in HR+/HER2- metastatic breast cancer
7	Josefina Mendez	Toker	BET bromodomain-containing protein BRD2 is a targetable vulnerability in cancer
8	Tashbib Khan	Toker	Targeting Glycogen Metabolism in PI3K pathway-driven cancer
9	Adam Nelson	Guerriero	Combined anti-CSF-1R and anti-TIM-3 overcome macrophage-mediated mechanisms of PARP inhibitor (PARPi) resistance in BRCA1-associated triple negative breast cancer
10	Alex Gottlieb	Guerriero	Rapid, non-viral monocyte engineering with circular RNA for solid tumor immunotherapy
11	Carlos Wanderley	Guerriero	Targeting lipid metabolism to improve PARP inhibitor response in BRCA-associated TNBC
12	Kenichi Shimada	Guerriero	Spatially resolved multi-omic profiling uncovers BRCA-dependent immune remodeling and cellular neighborhood reorganization in response to PARP and PD-L1 blockade in breast cancer
13	Xiaohan Ning	Wucherpennig	Altered Glycosylation Protects Metastatic Mesenchymal Cancer Cells from Cytotoxic T cells
14	Eric Souto	Brugge	Aging Drives Transcriptional and Chromatin Remodeling in the Normal Human Breast
15	Alice Bertocchi	Agudo & Dougan	B cells facilitate immune evasion of metastasizing cancer cells in tumor-draining lymph nodes
16	Alanis Carmona	Ubellacker	Lipidomic and metabolomic signatures of breast cancer presence versus absence in lymph nodes
17	Marie Sabatier	Ubellacker	GPX4 inhibitor resistance confers decreased metastatic potential in triple negative breast cancer
18	Marie-Anne Goyette	Polyak	Modeling HER2 Heterogeneous Breast Cancer Uncovers Therapeutic Vulnerabilities and Subclonal Evolution Driving Resistance to HER2-Targeted Therapies
19	Tao Zhang	Brown	Obesity shapes a reversible immune microenvironment that fosters breast cancer growth
20	Louise Groton	Sharpe	Investigating the Relationship Between PD-1 Signaling and TGF- $\beta$ Signaling 20 0 in Tissue-Resident Memory Cell Formation
21	Jiao Shen	Dougan	Identification of KRAS-specific TCRs from human peripheral blood
22	Taylor Uccello	Jain	Targeting EPHB2/ABL1 restores anti-tumor immunity in a preclinical model of ependymoma
23 (XL)	Heena Kumra	Jain	Re-evaluating AT1 Blockade in Pancreatic Cancer: Toward More Effective Targeting Strategies
24			
25	Yutong (Mary) Dai	Haigis	Defining Metabolic Liabilities in Oncogene-Driven Lung Cancer
26	Shelly Kalaora	Haigis	Combining chemoproteomics and phenotypic screening for identifying STING modulators
27	Simeng Lu	Jain	NKG2D Upregulation Enhances T and NK Cell Cytotoxicity, Sensitizes Tumors to Combined $\alpha$ PD1 and $\alpha$ VEGF Therapy, and Contributes to Hearing Loss Prevention in Vestibular Schwannoma Model
28	Ryo Morisue	Jain	Excess accumulation of visceral adipose tissue drives desmoplastic and immune suppressive tumor microenvironment in pancreatic cancer
29	Kayla Cruz	Muranen	Cancer-Associated Fibroblast-derived CHI3L1 promotes tumor progression and immunosuppression in pancreatic cancer
30	Jenny Hogstrom	Muranen	Cancer-associated fibroblast-secreted Succinate stimulates resistance to CDK4/6-inhibitors in HR+ breast cancer
31	Roubina Tatavosian	Lahav	p53 in Intestinal Organoids: Translating Insights to Mitigate Radiation-Induced GI Syndrome
32	David Miller	Lahav	The origin and consequences of heterogeneous p53 dynamics in single cells
33	Kotaro Fujimaki	Lahav	DNA Damage to Arrest Failure, and Everything in Between
34	Airlia Shaffer	Lahav	p53 accumulation at radiation damage sites
35	Wonsang Hwang	Evans	Label-Free Metabolic Imaging for Lung Cancer Research and Its Potential Clinical Applications
36	Samantha Bevill	Bernstein	Redirecting MDM2 E3 ligase activity for tumor-specific target degradation
37	SankhaSubhra Chakrabarty	Santagata / Sorger	Spatial Metabolic Gradients Drive Epigenetic Reprogramming in Human Glioblastoma
38	Elen Torres	Santagata / Sorger	Characterization of Clear Cell Odontogenic Carcinoma and Related Clear Cell Neoplasms
39	Coralie Dessauges	Sorger	BRAF Targeted Therapy Induces Spatially Organized Lineage States in Melanoma
40	Tuulia Vallius	Sorger & Santagata	Spatial determinants of tumor cell dedifferentiation and plasticity in primary cutaneous melanoma
41	Jia-Ren Lin	Sorger & Santagata	Comparative assessment of multiple PD-L1 antibodies on the same slide using multiplex tissue-based cyclic immunofluorescence.
42	Enakshi Sunassee	Brugge	Spatial and Molecular Profiling of the Microenvironment to Gain Insights into Breast Cancer Initiation using GRAY Breast ATLAS Data
43	Yoke Seng Lee	Van Galen	Synergistic Targeting of eIF4A-Mediated Translation Initiation and Apoptosis in Acute Myeloid Leukemia
44	Hailey Tolson	Van Galen	Defining how eIF4A paralogs mediate translation inhibitor sensitivity and resistance in AML
45	Amanda Fortune	Lane	Genome-wide CRISPR interference screening identifies Coenzyme A biosynthesis pathway as potential therapeutic target for eganelisib resistance in acute myeloid leukemia
46	Haili Ma	Lane	Decoding leukemia-intrinsic determinants that modulate macrophage-mediated phagocytosis
47	Anirudh Sudarshan	Burns	Identifying chemical approaches to enhance translation of LINE-1 encoded ORF2p for cancer therapeutics
48	Jupiter Kalinowski	Burns	Identifying Suppressors of LINE-1 Expression Using FACS-Based CRISPR Screens

**2025 LUDWIG RETREAT**  
**POSTER SESSION II: 4:30 - 6:00 pm**

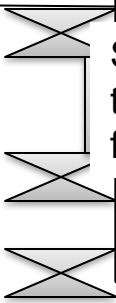
#	Primary author	Home lab	Poster title
49	Xingjian Zhang	Jain	Targeting the Cancer Cell Glycocalyx to Enhance T Cell-Mediated Immunotherapy
50	Benjamin Wolf	Jain	Chronic Hypertension Reprograms the Antitumor-Immune-Response in Pancreatic Cancer
51	Daniel Radin	Jain	Wnt inhibition improves the efficacy of anti-PD-1 therapy in glioblastoma
52	Vassia Salameti	Jain	Reprogramming the Tumor Microenvironment to Improve CAR-T Therapy of Glioblastoma
53	Samuel Markson	Sharpe	PD-1 regulates CD8+ T cell tissue resident memory differentiation and function following influenza infection
54	Lauren Milling	Sharpe	The STUB1-CHIC2 complex regulates cytokine receptor expression on CD8+ T cells
55	Ryan Marina	Adelman	Investigating the roles of the Integrator complex in response to cellular stress
56	Stefan Harry	Bar-Peled	Systematic Targeting of Protein Complexes with Molecular COUPLrs
57	Maolin Ge	Bar-Peled	Cysteine Oxidation is Required for Mitochondria Complex I Activity
58	Yousef Ali	Bar-Peled	Oxidation of Retromer Complex controls Mitochondrial Translation
59	Tanjina Kader	Santagata / Sorger	Integrative spatial profiling of protein and chromosomal alterations across normal, precancer, and cancer progression
60	Xixi Zhang	Wucherpennig	The CARM1 Epigenetic Enzyme Inhibits Cross-presenting Dendritic Cell Function in Cancer Immunity
61	Xiangkun Han	Brugge	NRF2 Suppresses Interferon Signaling via Metabolic-epigenetic Rewiring to Shape Tumor Immunity and Immunotherapy Response
62	Chendi Li	Hata	Targeted therapy-induced chromosomal instability dictates mitotic dependency on Aurora Kinase A
63	Zachary Mirman	Elledge	Screening the virome for tumor immune evasion
64	Ondrej Belan	Elledge	A genetic map of the virus-perturbed DNA damage response
65	Alexander Subtelny	Elledge	Reprogramming of cell identity and metabolism by BAP1 loss during mesothelioma tumorigenesis
66	Xiphias Zhu	Elledge	Functional screening of breast cancer growth in vivo reveals unique mechanisms of immune evasion
67	Kunitoshi Chiba	Elledge	Combinatorial cancer genetics uncovers cooperation in tumorigenesis
68	Natalia Serbyn	Pellman	Developing a Model of Chromoplexy to Investigate Catastrophic Genome Rearrangements in Prostate Cancer
69	Simone Bruno	Michor	Optimal epigenetic therapies in triple-negative breast cancer
70	Bingxian Xu	Michor	Towards the construction of a virtual cell
71	Ricardo de Matos Simoes	Mitsiades	Functional genomics studies identify determinants of response vs. resistance to pharmacological inhibitors of RAS in myeloma
72	Olga Dashevsky	Mitsiades	Negative regulators of survival and proliferation (NRSPs) identified by CRISPR activation studies in multiple myeloma (MM) vs. other neoplasias: therapeutic implications
73	Huihui Tang	Mitsiades	Identification of Novel and Understudied "Driver" Genes of Multiple Myeloma through Genome-Scale CRISPR Activation Studies
74	Evan Papadopoulos	Mitsiades	In silico structural biology studies inform the identification of "druggable" pockets in previously understudied dependencies with tumor type/lineage-selective roles
75(XL)	Joshua François	Lahav	Quantifying single-cell responses to irradiation in 3D
76			
77	Ramya Ravindranathan	D'Andrea	Synergistic Ovarian Cancer killing by combination of PARG and USP1 inhibitors: Role of single strand DNA Gaps as a Predictive Biomarker
78	Nicholas Ashton	D'Andrea	A RAD18-PCNA interaction underlies the synthetic lethality of USP1 inhibition in BRCA1-deficient cancer cells
79 (XL)	Jie Hao	Shapiro	PTEN protein and lipid phosphatase deficiency confers sensitivity to ATR inhibitor-based treatment in high-grade serous ovarian cancer
80			
81	Jun Yong Kim	Shapiro	CDK6 as a mechanism of resistance to CDK4-selective inhibition in hormone receptor-positive metastatic breast cancer
82	Eunbee Choi	Shapiro	Targeting cyclin K-CDK12 Synergizes with ATR Inhibition by Limiting RPA Chromatin Loading in Triple-Negative Breast Cancer
83	Daryl Griffin	Shapiro	Overcoming Adaptive Stress Responses in NUT Carcinoma
84	Renyan Liu	Shapiro	BET bromodomain inhibition reverses CDK4/6 inhibitor resistance in estrogen receptor-positive breast cancer via induction of miR-34a-5p
85 (XL)	Tim Branigan	Shapiro	DNA-PK enforces the S/G2 checkpoint in ATM-deficient cells to limit ATR inhibitor efficacy
86			
87	Ariel Swett	Tothova	Reactivation of endogenous retroviral elements drives progression of STAG2-mutant MDS
88	Lin Han	Tothova	STAG2 Mutations Drive Development of Myelodysplastic Syndromes by Promoting R-loop-Mediated Genomic Instability and Activation of cGAS-STING
89	Jitendra Shrestha	Motamedi	Epigenetic reprogramming of the mesenchymal cells by inhibition of SUV39H1/H2
90	Jasbeer Khanduja	Motamedi	lncRNA-mediated heterochromatin assembly
91	Sonu Subudhi	Jain	Improving Outpatient Workflows through Structured History Collection with Large Language Models
92	Asif Khan	Sander	Predicting pancreatic cancer using AI trained on real-world longitudinal diagnostic and medication records
93	Duncan Forster	Sander	Multi-Cancer Risk Prediction Using Transformers Trained on Large-Scale Longitudinal EHR Data
94	Moshir Harsh	Sander	Representation learning on longitudinal health trajectories using LLMs for disease risk assessment

Elevators



Stairs up to first floor

Coat racks



Outdoor Courtyard

AMPHITHEATER

#48

#94

#25

#73

MARTIN CENTER LOBBY

#1

#49

#24

#72

Swipe Entrance

MAIN Entrance

**POSTER SESSION I, NOON- 1:30 PM**  
**POSTER #s 1-48**

**POSTER SESSION II: 4:30 - 6 PM**  
**POSTER #s 49 - 94**

