

Starr Cancer Consortium Retreat

Cold Spring Harbor Laboratory, April 24 – April 25, 2023

Monday, April 24, 2023

9:00 – 11:00 am		<i>Attendee Arrival and Check In</i>		(Grace Auditorium Lobby)
11:00 am		<i>Welcome and Opening Remarks</i> Bruce Stillman President Cold Spring Harbor Laboratory		(Grace Auditorium)
11:10 am – 12:30 pm		<i>Plenary Session - 1</i> Chair: Yael David		(Grace Auditorium)
11:10 am	1	Zsofia Stadler	<i>MSIPredict: highly sensitive detection of tumor derived cell-free DNA for cancer interception in Lynch Syndrome</i>	
11:35 am	2	Steven Lipkin	<i>Lynch Syndrome colorectal cancer immunoprevention using recurrent neoantigen peptide vaccination</i>	
12:00 pm	3	Alex Kentsis	<i>Exploiting functional epigenomics and proteomics to unravel neoantigens in pediatric leukemia</i>	
12:30 – 2:00 pm		<i>Lunch</i>		(Blackford Hall)
2:00 – 3:15 pm		<i>Plenary Session - 2</i> Chair: Naama Kanarek		(Grace Auditorium)
2:00 pm	4	Yuhki Saito	<i>Systematic identification of oncogenic protein-RNA interaction sites for GBM treatment</i>	
2:25 pm	5	Samuel Bakhoun	<i>Examining the link between EZH2 and chromosomal instability in metastatic breast cancer</i>	
2:50 pm	6	Steven Josefowicz	<i>Mechanisms of dynamic chromatin reorganization regulating B cell differentiation and lymphomagenesis</i>	
3:15 – 4:00 pm		<i>First Poster Session (with Coffee Break)</i>		(Grace Lobby & Patio)

4:00 – 5:00 pm		<i>Break</i>	
5:00 – 6:00 pm		<i>Wine and Cheese Reception (Posters available)</i>	(Grace Patio)
6:00 – 7:00 pm		<i>Buffet Dinner</i>	(Mayr Dining Room, Blackford Hall)
7:10 – 8:30 pm		<i>Plenary Session - 3</i> Chair: Shixin Liu	(Grace Auditorium)
7:10 pm	7	Pei Xin Lim	<i>Modifiers of BRCA2 tumor suppressor loss of function</i>
7:35 pm	8	Christopher Vakoc	<i>Chemical disruption of kinase-to-chromatin signaling in chemotherapy-refractory leukemia</i>
8:00 pm	9	Sandra Demaria	<i>The effects of radiotherapy on the presentation of phosphorylated antigens by cancer cells</i>

End of Day One

Tuesday, April 25, 2023

8:30 – 10:10 am		<i>Plenary Session - 4</i>	(Grace Auditorium)
		Chair: Dan Landau	
8:30 am	10	Lior Golomb	<i>EGFR inhibition in lung cancer: resistance, sensitization, and combination therapy</i>
8:55 am	11	Alex Kentsis	<i>Targeting the MYB proto-oncoprotein as a therapeutic strategy for acute myeloid leukemia</i>
9:20 am	12	Justin Cross	<i>Detection of impending infections in immunocompromised cancer patients</i>
9:45 am	13	Christopher Schrecker	<i>Microbiome-derived hydrogen sulfide as a trigger for CIMP colorectal cancer</i>
10:10 – 10:55 am		<i>Second Poster Session (with Coffee Break)</i>	(Grace Lobby & Patio)
10:55 am – 12:30 pm		<i>Plenary Session - 5</i>	(Grace Auditorium)
		Chair: Tobias Janowitz	
10:55 am	14	Andrew Intlekofer	<i>Metabolic coupling of hypoxia to intratumoral heterogeneity</i>
11:20 am	15	Bishoy Faltas	<i>Defining the functional impact of composite mutations in oncogene-driven urothelial cancer using circulating-tumor DNA and single-cell sequencing</i>
11:45 am	16	Stefan Torborg	<i>Defining the cancer stem cell niche</i>
12:10 pm		<i>Closing Remarks</i>	
		Executive Committee	
12:30-1:00 pm		<i>Attendee Departure - Lunch Available</i>	

Poster Presentations

Posters are displayed for the duration of the Retreat. Posters are presented in two poster sessions. Each poster's presenter will be available at his/her poster during the assigned session. Session assignments are listed in the right-hand column.

Session 1: Monday, April 24 3:15 – 4:00 pm
Session 2: Tuesday, April 25 10:10 – 10:55 am

Abstract			Session
17	Ron Baik	<i>Characterizing the impact of mitochondrial DNA mutations on colorectal cancer</i>	1
18	Ksenia R. Safina	<i>Abrogating clonal evolution and myeloid transformation by targeting epigenetic plasticity</i>	2
19	Mirca Saurty-Seerunghen Vicenta Trujillo Alonso	<i>Defining the evolution and tumor microenvironment interactions of classic Hodgkin lymphoma through single-cell multi-omics and genetically engineered mouse models</i>	1
20	Yael David	<i>Exploring protein glycation for cancer therapy</i>	2
21	Chhiring Lama	<i>Early intervention for the prevention of blood cancer development</i>	1
22	Iman Hajirasouliha	<i>Weakly-supervised tumor purity prediction from H&E stained slides</i>	2
23	Masashi Nomura Ramya Raviram	<i>Defining the evolutionary mechanisms of IDH-mutant glioma progression through single-cell multi-omics innovation</i>	1
24	Tobias Janowitz	<i>Defining the role of sleep in cancer immunity and metabolism</i>	2
25	Jeannette Brook	<i>Capture of leptomeningeal cancer cell and macrophage iron metabolism</i>	1

26	Christina Woo	<i>Sequestration of transcriptional regulators by the lenalidomide–cereblon complex for targeting myeloid leukemia</i>	2
27	Bishoy Faltas	<i>Targeting cytidine deaminase-induced chromosomal instability as a driver of metastasis in bladder cancer</i>	1
28	Melody Zeng	<i>Defining the role of stress-induced changes in the IgG-gut microbiome-neutrophil axis during breast cancer progression and metastasis</i>	2
29	Justin Rendleman	<i>Defining the gene regulatory response and pathways for acquired resistance to CDK inhibitor treatment in hormone receptor positive breast cancer</i>	1
30	Billy Lu	<i>Determining and targeting evolutionary trajectories driving bladder cancer</i>	2
31	Lukas Dow	<i>Identifying acquired vulnerabilities driven by lineage plasticity and drug resistance in CRC</i>	1
32	Sonali Sinha	<i>The influence of homologous recombination deficiency on tumor immunity and immunotherapy efficacy</i>	2
33	Jeanette Sutherland	<i>BRCA2 function modified by mutations in the BRC element</i>	1
34	Alan YL Wong	<i>In vivo crispr screen identifies metabolic vulnerabilities of leukemia that spreads to the central nervous system</i>	1
35	Xinran Tong	<i>Retinoic acid induced lipid biosynthesis in leptomeningeal metastasis (poster 3)</i>	2
36	Branavan Manoranjan	<i>Neurotransmitter toxicity drives neurological death in leptomeningeal metastasis (poster 4)</i>	2
37	Isabella Kong	<i>Modulation of viral latency in EBV-associated lymphomas as a mechanism to sensitize tumors to EBV-directed cellular therapy</i>	1

38	Sydney M. Moyer	<i>TH1 cells with increased adhesion pathway expression are required for inflammation-associated colorectal cancer development and progression</i>	2
39	Tiantian Zhang	<i>The function and regulation of MiT/TFE activation in autophagy and pancreatic ductal adenocarcinoma.</i>	1
40	Bocheng Wu	<i>Discovery of small molecule regulators for tox protein</i>	2
41	Zita Aretz	<i>The effects of radiotherapy on the presentation of the phosphorylated immunopeptidome by cancer</i>	1
42	Coraline Mlynarczyk	<i>Defining the cellular origin and mechanistic basis for therapy resistant B-cell lymphomas</i>	1
43	Jessica Hem	<i>CALR-mutated cells are vulnerable to combined inhibition of the proteasome and the unfolded protein response</i>	2
44	Nicole Curnutt	<i>Assessing a monovalent degrader of ck1α in ovarian cancer models</i>	2
45	Hanzhi Luo	<i>m6A-mediated control of son dictates hematopoietic stem cell fate</i>	1
46	Alexia Martínez de Paz	<i>Mechanisms of dynamic chromatin reorganization regulating b-cell differentiation and lymphomagenesis</i>	2