

# Starr Cancer Consortium Retreat

Cold Spring Harbor Laboratory, May 13 – May 14, 2024

Monday, May 13, 2024

9:00 – 11:00 am		<b><i>Attendee Arrival and Check In</i></b>	<b>(Grace Auditorium Lobby)</b>
11:00 am		<b><i>Welcome and Opening Remarks</i></b> Bruce Stillman President Cold Spring Harbor Laboratory	<b>(Grace Auditorium)</b>
11:10 am – 12:30 pm		<b><i>Plenary Session - 1</i></b> Chair: Viviana Risca	<b>(Grace Auditorium)</b>
11:10 am	<b>1</b>	Alexia Martínez de Paz <i>Mechanisms of dynamic chromatin reorganization regulating B-cell differentiation and lymphomagenesis</i>	
11:35 am	<b>2</b>	Anna S. Nam <i>Defining the evolution and tumor microenvironment interactions of classic Hodgkin lymphoma through single-cell multi-omics and genetically engineered mouse models</i>	
12:00 pm	<b>3</b>	Ron Baik <i>Characterizing the impact of mitochondrial DNA mutations on colorectal cancer</i>	
12:30 – 2:00 pm		<b><i>Lunch</i></b>	<b>(Blackford Hall)</b>
2:00 – 3:15 pm		<b><i>Plenary Session - 2</i></b> Chair: Karuna Ganesh	<b>(Grace Auditorium)</b>
2:00 pm	<b>4</b>	Mario Suvà <i>Defining the evolutionary mechanisms of IDH-mutant glioma progression through single-cell multi-omics innovation</i>	
2:25 pm	<b>5</b>	Branavan Manoranjan <i>Capture of leptomeningeal cancer cell and macrophage iron metabolism</i>	
2:50 pm	<b>6</b>	Tobias Janowitz Ana Krieger <i>Defining the role of sleep in cancer immunity and metabolism</i>	

3:15 – 4:00 pm		<b><i>Poster Session (with Coffee Break)</i></b>	<b>(Grace Lobby &amp; Patio)</b>
4:00 – 5:00 pm		<b><i>Break</i></b>	
5:00 – 6:00 pm		<b><i>Wine and Cheese Reception (Posters available)</i></b>	<b>(Grace Patio)</b>
6:00 – 7:00 pm		<b><i>Buffet Dinner</i></b>	<b>(Mayr Dining Room, Blackford Hall)</b>
7:10 – 8:30 pm		<b><i>Plenary Session - 3</i></b> Chair: Christina Woo	<b>(Grace Auditorium)</b>
7:10 pm	<b>7</b>	Iman Hajirasouliha	<i>Weakly-supervised tumor purity prediction from H&amp;E stained slides</i>
7:35 pm	<b>8</b>	Yael David	<i>Exploring protein glycation for cancer therapy</i>
8:00 pm	<b>9</b>	Alex Kentsis	<i>Targeting the MYB proto-oncoprotein as a therapeutic strategy for acute myeloid leukemia</i>
<b><i>End of Day One</i></b>			

## Tuesday, May 14, 2024

9:00 – 10:15 am		<b>Plenary Session - 4</b> Chair: Semir Beyaz	<b>(Grace Auditorium)</b>
9:00 am	<b>10</b>	Zsofia Stadler	<i>MSIPredict: highly sensitive detection of tumor derived cell-free DNA for cancer interception in Lynch Syndrome</i>
9:25 am	<b>11</b>	Bishoy Faltas	<i>Defining the functional impact of composite mutations in oncogene-driven urothelial cancer using circulating-tumor DNA and single-cell sequencing</i>
9:50 am	<b>12</b>	Michael Ortiz	<i>Characterizing the genomic landscape of adult-onset Wilms' tumors to generate faithful preclinical models for therapeutic testing.</i>
10:15 – 10:40 am		<b>Coffee Break</b>	<b>(Grace Lobby &amp; Patio)</b>
10:40 am – 12:30 pm		<b>Plenary Session - 5</b> Chair: Steven Josefowicz	<b>(Grace Auditorium)</b>
10:40 am	<b>13</b>	Sandra Demaria	<i>The effects of radiotherapy on the presentation of phosphorylated antigens by cancer cells</i>
11:05 am	<b>14</b>	Anna S. Nam	<i>Early intervention for the prevention of blood cancer development</i>
11:30 am	<b>15</b>	Peter van Galen	<i>Abrogating clonal evolution and myeloid transformation by targeting epigenetic plasticity</i>
12:00 pm		<b>Closing Remarks</b> Executive Committee	
12:30-1:00 pm		<b>Attendee Departure - Lunch Available</b>	

## Poster Presentations

Posters are displayed for the duration of the Retreat. Posters are presented in one poster session. Each poster's presenter will be available at their poster during the session.

Session: Monday, May 13 3:15 – 4:00 pm

### Abstract

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|-----------|---------------------|---|
| <b>16</b> | Angel Ni            | <i>Sequestration of transcriptional regulators by the lenalidomide–cereblon complex for targeting myeloid leukemia</i>                                  |
| <b>17</b> | Bishoy Faltas       | <i>Targeting cytidine deaminase-induced chromosomal instability as a driver of metastasis in bladder cancer</i>   |
| <b>18</b> | Melody Zeng         | <i>Defining the role of stress-induced changes in the IgG-gut microbiome-neutrophil axis during breast cancer progression and metastasis</i>            |
| <b>19</b> | Justin Rendleman    | <i>Defining the gene regulatory response and pathways for acquired resistance to CDK inhibitor treatment in hormone receptor positive breast cancer</i> |
| <b>20</b> | Billy Lu            | <i>Determining and targeting evolutionary trajectories driving bladder cancer</i>   |
| <b>21</b> | Lukas Dow           | <i>Identifying acquired vulnerabilities driven by lineage plasticity and drug resistance in CRC</i>   |
| <b>22</b> | Sonali Sinha        | <i>The influence of homologous recombination deficiency on tumor immunity and immunotherapy efficacy.</i>   |
| <b>23</b> | Tiantian Zhang      | <i>The function and regulation of MiT/TFE activation in autophagy and pancreatic ductal adenocarcinoma</i>  |
| <b>24</b> | Jeanette Sutherland | <i>BRCA2 function modified by mutations in the BRC element</i>  |

- 25** Merle Riedemann *Mutant ASXL1 exacerbates the MPN phenotype of CALR<sup>del152</sup> mutant mice and alters megakaryocyte differentiation*
- 26** Ankur Garg  
Kin Fan On *A molecular view of FN3K-mediated phosphorylation of a glycosylated substrate*
- 27** Suhong Sun *The role of SOCS1, TNFAIP3, and B2M in Hodgkin lymphoma*
- 28** Jeannette Brook *Guide to optimizing liquid-chromatography mass-spectrometry method for detection of specific metabolites*
- 29** Alan Wong *In vivo CRISPR screen identifies copper metabolism as a vulnerability in ALL*
- 30** Yang Bai  
Albert Agustinus *Examining the link between EZH2 and chromosomal instability in metastatic breast cancer*