

# Virtual Starr Cancer Consortium Retreat

Hosted online by Cold Spring Harbor Laboratory, May 3 – May 4, 2021

**Monday, May 3, 2021**

9:00 am		<b><i>Welcome and Opening Remarks</i></b>	Bruce Stillman President Cold Spring Harbor Laboratory
9:10 am – 12:00noon		<b><i>Plenary Session - 1</i></b>	Chairs: Richard Lifton & Angela Koehler
9:10 am	<b>1</b>	Rona Yaeger	<i>Defining Key Genomic Alterations in the Carcinogenesis of Colitis-Associated Cancers</i>
9:35 am	<b>2</b>	Steven Lipkin	<i>Lynch Syndrome Colorectal Cancer Immunoprevention using Recurrent Neoantigen Peptide Vaccination</i>
10:00 am	<b>3</b>	Lisa Giulino Roth	<i>Modulation of viral latency in EBV-associated lymphomas as a mechanism to sensitize tumors to EBV-directed cellular therapy</i>
<b><i>Break (20 minutes)</i></b>			
10:45 am	<b>4</b>	Scott Keeney	<i>Genomic instability in the chromosomal context of physiological DNA double-strand break formation</i>
11:10 am	<b>5</b>	Bishoy Faltas	<i>APOBEC mutagenesis in bladder cancer: mechanisms and therapeutic opportunities</i>
11:35 am	<b>6</b>	Marcin Imielinski	<i>Deciphering signatures of broken DNA repair pathways in long-range cancer whole genome sequences</i>
12:00 – 2:00 pm		<b><i>Poster Session (2 hours over lunch)</i></b>	
2:00 – 5:00 pm		<b><i>Plenary Session - 2</i></b>	Chairs: Todd Golub & Zsofia Stadler
2:00 pm	<b>7</b>	Sanford Simon	<i>High Throughput Identification of Apoptosis Sensitizing Compounds in Fibrolamellar Hepatocellular Carcinoma</i>
2:25 pm	<b>8</b>	Anne Carpenter	<i>Using morphological pharmacodynamic markers to analyze drug sensitivity, resistance, and toxicity</i>
2:50 pm	<b>9</b>	Kayvan Keshari	<i>Imaging and targeting glycolytically driven oxidative stress using ascorbate</i>

**Break (20 minutes)**

3:35 pm	<b>10</b>	Samie Jaffrey	<i>Real-time imaging of metabolic deregulation in cancer</i>
4:00 pm	<b>11</b>	Elaine Fuchs	<i>Dissecting the Metabolic Regulation of Tumor Initiating Stem Cells</i>
4:25 pm	<b>12</b>	Kivanc Birsoy	<i>Identification of transcriptional determinants of asparaginase sensitivity in leukemias</i>

**End of Day One**

**Tuesday, May 4, 2021**

9:00 am – 11:55 am	<b>Plenary Session - 3</b>	Chairs: Lewis Cantley & Ethel Cesarman	
9:00 am	<b>13</b>	Charles Sawyers	<i>Defining prostate cancer cells of origin through single cell profiling</i>
9:25 am	<b>14</b>	Coraline Mlynarczyk	<i>Defining the cellular origin and mechanistic basis for therapy resistant B-cell lymphomas</i>
9:50 am	<b>15</b>	Yi-Chieh Nancy Du	<i>The function and regulation of MiT/TFE activation in autophagy and pancreatic ductal adenocarcinoma</i>

**Break (20 minutes)**

10:35 am	<b>16</b>	Gina Lee Hong-Wen Tang	<i>Biochemical and genetic investigation of oncogenic TOR-dependent regulation of RNA metabolism and tumorigenesis using cross-species approaches</i>
11:00 am	<b>17</b>	Michael Kharas	<i>The mRNA methylation program in leukemia</i>
11:25 am	<b>18</b>	Abhishek Niroula	<i>Clonal Hematopoiesis as a Driver of Adverse Clinical Outcome</i>
11:55 am		<b>Closing Remarks</b>	David Spector Director of Research Cold Spring Harbor Laboratory

## Poster Presentations

Posters will be viewable on CSHL's Virtual Poster Gallery, which will go live at 9am on Monday May 3 and remain available through end of day Tuesday May 4. Posters are numbered and cross-linked to the respective abstract and Slack sub-channel.

In the Virtual Poster Gallery, the posters are searchable by name, presenter or abstract. Posters are arranged randomly to maximize interaction (every browser view is different). Posters can be marked as viewed or marked for future reference.

Poster Session:            Monday, May 3            12:00 pm – 2:00 pm

### Abstract

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|-----------|--|---|
| <b>19</b> | Ayala Carl<br>Alexander Settle           | <i>Visualizing targeted killing of cancer cells by therapeutic T-cells at the nanoscale</i>     |
| <b>20</b> | Amanda J Pickard<br>Ruben Ramos          | <i>Detection of impending infections in immunocompromised cancer patients</i>                   |
| <b>21</b> | Andrew Intlekofer                        | <i>Metabolic coupling of hypoxia to intratumoral heterogeneity</i>                              |
| <b>22</b> | Charles Kinzig                           | <i>The role of telomerase in healing broken chromosomes in cancer</i>                           |
| <b>23</b> | Helena Yu<br>Lior Golomb<br>Tikvah Hayes | <i>EGFR inhibition in lung cancer: resistance, sensitization, and combination therapy</i>       |
| <b>24</b> | Steven Gross                             | <i>Microbiome-derived Hydrogen Sulfide as a Trigger for CIMP Colorectal Cancer</i>              |
| <b>25</b> | Christopher Vakoc                        | <i>Chemical disruption of kinase-to-chromatin signaling in chemotherapy-refractory leukemia</i> |
| <b>26</b> | Cem Meydan                               | <i>Dietary regulation of cancer immunity</i>  |
| <b>27</b> | Tai-Yuan Yu                              | <i>Modifiers of BRCA2 Tumor Suppressor Loss of Function</i>                                     |
| <b>28</b> | Jasmin Kruell<br>Becky Leifer            | <i>Targeting the MYB Proto-Oncoprotein as a Therapeutic Strategy for Acute Myeloid Leukemia</i> |

- 29** Caroline Wiggers *Exploiting functional epigenomics and proteomics to unravel neoantigens in pediatric leukemia*
- 30** Alexia Martínez de Paz *Mechanisms of dynamic chromatin reorganization regulating B cell differentiation and lymphomagenesis*
- 31** Stefan Torborg *Defining the cancer stem cell niche*
- 32** Michael Ortiz *Characterizing the genomic landscape of adult onset Wilms' tumors to generate faithful preclinical models for therapeutic testing*
- 33** Yuhki Saito *Systematic identification of oncogenic protein-RNA interaction sites for GBM treatment*
- 34** Yang Bai  
Albert Agustinus *Examining the link between EZH2 and chromosomal instability in metastatic breast cancer*
- 35** Zsofia Stadler *MSIPredict: Highly Sensitive Detection of Tumor Derived Cell-free DNA for Cancer Interception in Lynch Syndrome*
- 36** Samantha J. Van Nest *The Effects of Radiotherapy on the Presentation of Phosphorylated Antigens by Cancer Cells*
- 37** Bishoy Faltas *Defining the functional impact of composite mutations in oncogene-driven urothelial cancer using circulating-tumor DNA and single-cell sequencing*
- 38** Hans-Guido Wendel *Inhibitors of the eIF4A RNA helicase for cancer therapy*
- 39** Sun-Mi Park  
David Miyamoto *Targeting IKZF2 as a novel stem cell/immuno-oncologic therapy in AML*
- 40** Alexey A Soshnev *Elucidating the Etiologic Role of Linker Histone Mutations in Hematological Malignancy*

- 41** Coraline Mlynarczyk *Defining the cellular origin and mechanistic basis for therapy resistant B-cell lymphomas*
- 42** Dylan McNally *Highly multiplex tissue imaging of b-cell lymphomas identifies novel pathological features predictive of overall survival*
- 43** Juhee Pae *Cyclin d3 drives inertial cell cycling in dark zone germinal center b cells*
- 44** Haley Noonan *An in vivo CRISPR Screen for Melanoma Progression in Zebrafish*