

# **Starr Cancer Consortium Retreat**

Cold Spring Harbor Laboratory, September 26-27, 2011

**Monday, September 26, 2011**

- 9:00 – 11:00 am      *Attendee Arrival and Registration*
- 11:00 am              *Welcome and Opening Remarks*  
Bruce Stillman  
President, Cold Spring Harbor Laboratory
- 11:20 am – 12:20 pm   *Plenary Session: Functional Genomics*  
Chairs: Bruce Stillman and Tony Gotto
- 11:20 am              Selina Chen-Kiang              “Sensitizing shRNA screen for Molecular Targets in CDK4/CDK6-based Cancer Therapy”
- 11:40 am              William C. Hahn              “Comparative Oncogenomics to Discover Oncogene Synthetic Lethality”
- 12:00 pm              Mark A. Rubin              “Functional Validation of Somatic Mutations in Prostate Cancer”
- 12:20 – 1:40 pm      *Lunch*
- 1:40 – 2:45 pm      *Plenary Session: Functional Genomics (continued)*  
Chairs: Bruce Stillman and Tony Gotto
- 1:40 pm              Brian C. Grabiner              “Identification and Clinical Assessment of Genes that Regulate the Response of Cancers to Rapamycin Through Pooled RNAi Screens”
- 2:00 pm              Ari Melnick              “Mechanisms Determining Disease Relapse in Older Patients with Acute Myeloid Leukemia”
- 2:20 pm              Neal Rosen              “Development of Mechanism-Based Therapies for the Treatment of Metastatic Melanoma”
- 2:45 – 3:30 pm      *First Poster Session and Interactive Demonstration of Integrative Cancer Genomics Portal (ICGP)*  
*(With Coffee Break)*
- 3:30 – 4:10 pm      *Plenary Session: Imaging*  
Chairs: Marc Tessier-Lavigne and David Hajjar
- 3:30 pm              Mikala Egeblad              “Functional Analysis of Cell-Specific Pharmacology on Tumor Microenvironments”

3:50 pm	Steven M. Larson	“ZIRCONIUM-89 (ZR-89) J591 based Positron Emission Tomography (ImmunoPET) as a Basis for Improving Diagnostic Imaging of Prostate Cancer”
4:10 – 4:50 pm	<b>Plenary Session: Epigenetics and Gene Expression</b> Chairs: Marc Tessier-Lavigne and David Hajjar	
4:10 pm	G. Greg Wang	“Cancer Epigenetics: Understanding the "Writers", "Readers" and Functional Readout of Histone Lysine and Arginine Methylation Marks in Human Cancer”
4:30 pm	Charles Sawyers	“Elucidating Mechanisms of ETS-mediated Oncogenesis in Prostate Cancer and Gastrointestinal Stromal Tumor (GIST)”
5:00 – 6:00 pm	<b>Wine and Cheese Reception (Posters &amp; ICGP Interactive Demonstration available)</b>	
6:00 – 7:00 pm	<b>Banquet Dinner</b>	
7:00 – 8:00 pm	<b>Plenary Session: Epigenetics and Gene Expression (continued)</b> Chairs: Tom Kelly and Todd Golub	
7:00 pm	Ming O. Li	“Genome Wide Mapping of FoxO1 Binding-sites <i>in vivo</i> and Functional Study of FoxO1 Target Genes in Mouse T Lymphocytes
7:20 pm	Matthew Vander Heiden	“Role of Alternative Splicing in the Regulation of Cancer-Cell Metabolism”
7:40 pm	Thomas Tuschl	“Structural and Functional Definition of Posttranscriptional Regulatory Networks of Tumor-associated RNA-binding Proteins”
8:00 – 8:45 pm	<b>Second Poster Session and Interactive Demonstration of ICGP (With Coffee Break)</b>	
8:45 – 9:45 pm	<b>Plenary Session: Epigenetics and Gene Expression (continued)</b> Chairs: Tom Kelly and Todd Golub	
8:45 pm	Alexander Tarakhovsky	“Control of Prostate Cancer Progression by Ezh2-mediated Cytosolic Protein Lysine Methylation”
9:05 pm	Ian Cannell	“Mis-regulation of Protein Translation in the Pathogenesis and Treatment of Cancer”
9:25 pm	Minkui Luo	“Chemical Biology Approaches to Dissect Protein Methylation in Hematopoietic Cancer”
9:45 pm	<b>End of Day One</b>	

## Tuesday, September 27, 2011

8:50 – 9:50 am	<b>Plenary Session: microRNA</b> Chairs: Titia de Lange and Eric Lander	
8:50 am	Dinshaw Patel	“Mechanisms of miRNA Biogenesis and mRNA Targeting and Molecular Interventions to Modulate miRNA Pathways in Normal and Disease States”
9:10 am	Eric Lai	“Elucidation of microRNA Control of Cell Signaling and Apoptosis Pathways”
9:30 am	Sohail Tavazoie	“Identification of microRNAs that Predict Metastatic Relapse and Sensitivity to Chemotherapy in Human Colorectal Cancer”
9:50 – 10:35 am	<b>Third Poster Session and Interactive Demonstration of ICGP (With Coffee Break)</b>	
10:35 – 11:55 am	<b>Plenary Session: Cancer Genome</b> Chairs: Titia de Lange and Eric Lander	
10:35 am	Zsofia K. Stadler	“Genomic Structural Variation in Cancer Susceptibility”
10:55 am	Howard Scher	“Genomic Analysis of Circulating Tumor Cells to Evaluate Predictive Biomarkers”
11:15 am	Samuel Singer	“The Sarcoma Genome Project Phase II: A Comprehensive Molecular Characterization of Soft Tissue Sarcoma to Identify Subtype Specific Therapies”
11:35 am	Raya Khanin	“Testing and Validating High Throughput Analysis of FFPE Samples: Transforming the Scope of Investigations into the Genomic Basis of Cancer”
12:00 – 1:00 pm	<b>Lunch</b>	
1:00 – 2:00 pm	<b>Plenary Session: Cancer Genome (continued)</b> Chair: Craig Thompson	
1:00 pm	Robert Lucito	“Integrated Genetic Analysis of Epithelial Ovarian Cancer”
1:20 pm	Matthew Meyerson	“Sequence-Based Pathogen Discovery in AIDS-related Lymphoma and Colon Cancer”

1:40 pm	Lloyd Trotman	“Identification of PHLPP1 as a Tumor Suppressor Reveals the Role of Feedback Compensation in PTEN-Mutant Prostate Cancer Progression”
2:00 – 2:25 pm	<b><i>Break</i></b>	
2:25 – 3:25 pm	<b><i>Plenary Session: Cancer Genome (continued)</i></b> Chair: Craig Thompson	
2:25 pm	Ronglai Shen	“An Integrative Paradigm for the Discovery of Novel Tumor Subtypes and Associated Cancer Genes”
2:45 pm	Kenneth Offit	“Breast Cancer Protective Alleles by Whole Genome Association and Copy Number”
3:05 pm	Michel Nussenzweig	“Translocation-Capture Sequencing Reveals the Extent and Nature of Chromosomal Translocations in B Lymphocytes”
3:25 pm	<b><i>Closing Remarks</i></b> Executive Committee	
	<b><i>Attendee Departure</i></b>	

# Poster Presentations

Posters will be displayed for the duration of the Retreat. Posters will be presented in three 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, September 26<sup>th</sup>; 2:45 – 3:30 pm

Session 2: Monday, September 26<sup>th</sup>; 8:00 – 8:45 pm

Session 3: Tuesday, September 27<sup>th</sup>; 9:50 – 10:35 am

		<b>Session</b>
Ted Liefeld	“An Integrative Cancer Genomics Portal - (ICGP)” <i>Interactive Demonstration</i>	<b>1, 2, 3</b>
Steve Lianoglou	“Development of Quantitative Proteomic and Transcriptomic Approaches to Decipher Post-transcriptional Regulation in Cancer Pathogenesis”	<b>2</b>
Elisa Oricchio	“Epha Receptor Signaling – A new, Soluble Tumor Suppressor Pathway in Lymphoma”	<b>1</b>
Manu Setty	“Integrative Computational Analysis to Drive Discovery of microRNA-mediated Regulatory Networks in Cancer”	<b>3</b>
Raffaella Sordella	“Functional Characterization of Genomic Abnormalities that Cooperate with EGFR and K-RAS Oncogenic Mutations in Lung Tumorigenesis”	<b>1</b>
Agata Smogorzewska	“Identification and Functional Analysis of Novel Cancer Susceptibility Genes in Fanconi Anemia and Familial Breast Cancer Patients”	<b>1</b>
Lynda Cosgrave	“Molecular Imaging to Assess Tumor-associated Macrophages with Targeted Nanoparticles”	<b>1</b>
Kimberly Stegmaier	“Functional Genetic and Proteomic Analysis of Sensitivity and Resistance to Targeted Therapies”	<b>1</b>
Sevin Turcan	“Unraveling the Breast Cancer Metastasis Epigenome”	<b>2</b>
Sakari Vanharanta	“RNA-Binding Proteins in Breast Cancer: Suppression of Breast Cancer Progression by RBM47”	<b>3</b>
Li-Xuan Qin	A Genomic Analysis of Platunum Resistance in Advanced Stage Ovarian Cancer”	<b>3</b>

Jayanta Chaudhuri & Nina Papavasiliou	“AID: Roles in Oncogenesis and Tumor Relapse”	3
Ming Yu	“Epigenetic Mechanisms of the Mixed Lineage Leukemia 1 (MLL1) Protein in Human Leukemogenesis Mediated by Specific Interactions with the PAF Transcription Elongation Complex”	2
Xiao-Jian Sun	“Functions and Mechanisms of E-box-binding Transcription Factors in AML 1-ETO-mediated Leukemogenesis”	2
James Robinson & Helga Thorvaldsdóttir	“Transforming Genomics Data Visualization for Cancer Research”	3
Mary-Lee Dequéant	“Genomic and Epigenetics Changes Occurring During Carcinogenesis: A Fly Perspective”	2
Gil Redelman-Sidi	“An Integrated Host and Pathogen Genetic Strategy to Elucidate the Mechanism of Action of BCG in Therapy of Bladder Cancer”	1
Andrea Ventura	“A Multidisciplinary Approach to the Study of an Oncogenic microRNA Cluster”	3
Fang-Ke Huang	“Developing Fascin Inhibitors to Block Tumor Metastasis”	2
Joseph Vijai	“Genomewide Discovery of Novel Cancer Predisposing Mutations”	3
Kandasamy Ravi	“Genome Wide Profiling of Single Cells for Diagnosis and Monitoring in Prostate Cancer”	3
William Hahn	“Novel Approaches to Target High Grade Ovarian Cancers”	1
Martin J. Hicks	“Novel Treatment Strategies for Glioblastoma Using AAV-mediated CNS Gene Transfer of Monoclonal Antibodies”	2
Katharin Shaw	“Bromodomain Inhibition as Targeted Therapy in Acute Myeloid Leukemia”	1
Brendon Stiles	“Proteomic Analysis of Proximal Pulmonary Venous Blood Identifies Biomarkers for Non-Small Cell Lung Cancer”	2

Kamlesh K. Yadav	“Discovery of Prostate Cancer Tumor Suppressors and Treatment Biomarkers through <i>in vivo</i> RNA Interference Screens”	1
Peter W. Lewis	“Investigation of the ATRX-Daxx Chromatin-remodeling Complex in Pancreatic Neuroendocrine Tumors”	2
Cory M. Johannessen	“Systematic Studies of Resistance to Targeted Anticancer Therapeutics and Combinations”	1
Luca Cartegni	“Activation of Natural RTK Inhibitors in Cancer Therapy”	1
Minkui Luo	“Chemical Biology Approaches to Dissect Protein Methylation in Hematopoietic Cancer”	2
Jamie McBean	“Development of a Novel Substrate Profiling Assay for Protein Methyltransferase Set 7/9”	2
Brian C. Grabiner	“Identification and Clinical Assessment of Genes that Regulate the Response of Cancers to Rapamycin Through Pooled RNAi Screens”	1
Will Liao & Yifan Mo	“A Versatile Bayesian Segmentation Model for Determining Genome-Wide Occupancy Profiles in Various Chip-Seq Data Types”	2
Muhan Chen	“Identification of PHLPP1 as a Tumor Suppressor Reveals the Role of Feedback Compensation in PTEN-Mutant Prostate Cancer Progression”	3