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  **Plenary Session: Epigenetics and Gene Expression**
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  **Wine and Cheese Reception (Posters & ICGP Interactive Demonstration available)**

6:00 – 7:00 pm  **Banquet Dinner**

7:00 – 8:00 pm  **Plenary Session: Epigenetics and Gene Expression (continued)**
Chairs: Tom Kelly and Todd Golub

7:00 pm  Ming O. Li  “Genome Wide Mapping of FoxO1 Binding-sites in vivo 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 Tuschi  “Structural and Functional Definition of Posttranscriptional Regulatory Networks of Tumor-associated RNA-binding Proteins”

8:00 – 8:45 pm  **Second Poster Session and Interactive Demonstration of ICGP (With Coffee Break)**

8:45 – 9:45 pm  **Plenary Session: Epigenetics and Gene Expression (continued)**
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  **End of Day One**
Tuesday, September 27, 2011

8:50 – 9:50 am  
**Plenary Session: microRNA**  
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  
**Third Poster Session and Interactive Demonstration of ICGP (With Coffee Break)**

10:35 – 11:55 am  
**Plenary Session: Cancer Genome**  
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  
**Lunch**

1:00 – 2:00 pm  
**Plenary Session: Cancer Genome (continued)**  
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 Break

2:25 – 3:25 pm Plenary Session: Cancer Genome (continued) 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 Closing Remarks Executive Committee

Attendee Departure
## 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 26th; 2:45 – 3:30 pm  
**Session 2:** Monday, September 26th; 8:00 – 8:45 pm  
**Session 3:** Tuesday, September 27th; 9:50 – 10:35 am

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<td>Steve Lianoglou</td>
<td>“Development of Quantitative Proteomic and Transcriptomic Approaches to Decipher Post-transcriptional Regulation in Cancer Pathogenesis”</td>
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<tr>
<td>Elisa Oricchio</td>
<td>“Epha Receptor Signaling – A new, Soluble Tumor Suppressor Pathway in Lymphoma”</td>
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<td>Manu Setty</td>
<td>“Integrative Computational Analysis to Drive Discovery of microRNA-mediated Regulatory Networks in Cancer”</td>
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<td>Raffaella Sordella</td>
<td>“Functional Characterization of Genomic Abnormalities that Cooperate with EGFR and K-RAS Oncogenic Mutations in Lung Tumorigenesis”</td>
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<tr>
<td>Agata Smogorzewska</td>
<td>“Identification and Functional Analysis of Novel Cancer Susceptibility Genes in Fanconi Anemia and Familial Breast Cancer Patients”</td>
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<tr>
<td>Lynda Cosgrave</td>
<td>“Molecular Imaging to Assess Tumor-associated Macrophages with Targeted Nanoparticles”</td>
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<td>Kimberly Stegmaier</td>
<td>“Functional Genetic and Proteomic Analysis of Sensitivity and Resistance to Targeted Therapies”</td>
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<tr>
<td>Sevin Turcan</td>
<td>“Unraveling the Breast Cancer Metastasis Epigenome”</td>
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<td>Sakari Vanharanta</td>
<td>“RNA-Binding Proteins in Breast Cancer: Suppression of Breast Cancer Progression by RBM47”</td>
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<tr>
<td>Li-Xuan Qin</td>
<td>A Genomic Analysis of Platunum Resistance in Advanced Stage Ovarian Cancer”</td>
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<td>Jayanta Chaudhuri &amp; Nina Papavasiliou</td>
<td>“AID: Roles in Oncogenesis and Tumor Relapse”</td>
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<td>Ming Yu</td>
<td>“Epigenetic Mechanisms of the Mixed Lineage Leukemia 1 (MLL1) Protein in Human Leukemogenesis Mediated by Specific Interactions with the PAF Transcription Elongation Complex”</td>
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<tr>
<td>Xiao-Jian Sun</td>
<td>“Functions and Mechanisms of E-box-binding Transcription Factors in AML 1-ETO-mediated Leukemogenesis”</td>
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<td>James Robinson &amp; Helga Thorvaldsdottir</td>
<td>“Transforming Genomics Data Visualization for Cancer Research”</td>
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<td>Mary-Lee Dequéant</td>
<td>“Genomic and Epigenetics Changes Occurring During Carcinogenesis: A Fly Perspective”</td>
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<td>Gil Redelman-Sidi</td>
<td>“An Integrated Host and Pathogen Genetic Strategy to Elucidate the Mechanism of Action of BCG in Therapy of Bladder Cancer”</td>
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<td>Andrea Ventura</td>
<td>“A Multidisciplinary Approach to the Study of an Oncogenic microRNA Cluster”</td>
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<td>Fang-Ke Huang</td>
<td>“Developing Fascin Inhibitors to Block Tumor Metastasis”</td>
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<td>Joseph Vijai</td>
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<td>Kandasamy Ravi</td>
<td>“Genome Wide Profiling of Single Cells for Diagnosis and Monitoring in Prostate Cancer”</td>
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<td>William Hahn</td>
<td>“Novel Approaches to Target High Grade Ovarian Cancers”</td>
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<td>Martin J. Hicks</td>
<td>“Novel Treatment Strategies for Glioblastoma Using AAV-mediated CNS Gene Transfer of Monoclonal Antibodies”</td>
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<td>Katharin Shaw</td>
<td>“Bromodomain Inhibition as Targeted Therapy in Acute Myeloid Leukemia”</td>
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<td>Brendon Stiles</td>
<td>“Proteomic Analysis of Proximal Pulmonary Venous Blood Identifies Biomarkers for Non-Small Cell Lung Cancer”</td>
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<td>Kamlesh K. Yadav</td>
<td>“Discovery of Prostate Cancer Tumor Suppressors and Treatment Biomarkers through <em>in vivo</em> RNA Interference Screens”</td>
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<td>Peter W. Lewis</td>
<td>“Investigation of the ATRX-Daxx Chromatin-remodeling Complex in Pancreatic Neuroendocrine Tumors”</td>
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<td>Cory M. Johannessen</td>
<td>“Systematic Studies of Resistance to Targeted Anticancer Therapeutics and Combinations”</td>
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<td>Luca Cartegni</td>
<td>“Activation of Natural RTK Inhibitors in Cancer Therapy”</td>
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<td>Jamie McBean</td>
<td>“Development of a Novel Substrate Profiling Assay for Protein Methyltransferase Set 7/9”</td>
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<td>Will Liao &amp; Yifan Mo</td>
<td>“A Versatile Bayesian Segmentation Model for Determining Genome-Wide Occupancy Profiles in Various Chip-Seq Data Types”</td>
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<td>Muhan Chen</td>
<td>“Identification of PHLPP1 as a Tumor Suppressor Reveals the Role of Feedback Compensation in PTEN-Mutant Prostate Cancer Progression”</td>
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