

## **AGENDA/SPEAKERS\*** (Meeting on July 11-12, 2011)

### **Scientific Advisory Committee:**

Krishnarao Appasani, PhD., MBA. GeneExpression Systems, Inc.

Laurie Jackson-Grusby, Ph.D. Children's Hospital, Harvard Medical School

Shuji Ogino, MD, PhD. Brigham and Women's Hospital, Harvard Medical School

Alex Meissner, PhD. Harvard University & Broad Institute

### **Day 1: Monday, July 11**

- 8.00 AM**                      **Registration Open (Coffee and breakfast)**
- 9.00 AM – 12.30 PM**      **Session I: Chromatin Biology & Epigenetic re-programming**  
Chair: Laurie Jackson-Grusby
- 9.00 – 9.15 AM**              **Welcoming Note**  
Krishnarao Appasani, PhD., MBA. CEO, GeneExpression Systems, Inc.  
**Announcement & Presentation of Epigenomics Innovator Award to Robert Kingston**
- 9.15 – 9.55 AM**              **Keynote Lecture By Robert E. Kingston, PhD.**  
Professor of Genetics at the Harvard Medical School &  
Chief of Department of Molecular Biology at the Massachusetts General Hospital  
Boston, Massachusetts, USA  
**Title:** Nucleosome occupancy and epigenetic regulation of HOX genes
- 9.55 – 10.20 AM**              **Laurie Jackson-Grusby, PhD.**  
Assistant Professor of Pathology at the Children's Hospital &  
Harvard Medical School, Boston, MA, USA  
**Title:** To Be Announced
- 10.20 – 10.45 AM**              **Alex Meissner, PhD.**  
Assistant Professor of Stem Cell and Regenerative Biology, Harvard University  
Principal Faculty at Harvard Stem Cell Institute &  
Associate Member of the Broad Institute, Cambridge, MA, USA  
**Title:** Epigenetic dynamics in pluripotent cells
- 10.45 – 11.15 AM**              **Refreshment Break (30 min) Visit of Exhibits**
- 11.15 – 11.40 AM**              **Suneet Agarwal, MD, PhD.**  
Instructor in Pediatrics at the Children's Hospital Boston  
Harvard Medical School, Boston, MA, USA  
**Title:** Hydroxymethylcytosine, stem cells and cancer
- 11.40 – 12.05 PM**              **Jian Tajbakhsh, Ph.D.**  
Assistant Professor & Program Leader of Translational Cytoomics  
Cedars-Sinai Medical Center, Los Angeles, CA, USA  
**Title:** 3-D nuclear DNA methylation patterns in cell-based assays for epigenetic drug screening
- 12.05 – 12.30 PM**              **Gavin R. Schnitzler, PhD.**  
Assistant Professor of Medicine at The Tufts University School of Medicine  
Molecular Cardiology Research Institute  
Tufts University Medical Center, Boston, MA, USA  
**Title:** UGT1A1 regulatory polymorphisms may function by altering nucleosome positions
- 12.30 – 1.30 PM**              **Lunch Break (1 hour) Lunch will be provided**

**1.30 – 5.50 PM      Session II: Epigenomics in Disease Biology & Epidemiology**

Chair: Shuji Ogino

1.30 – 1.55 PM

**Dawn L. DeMeo, MD, MPH.**

Assistant Professor of Medicine at the Harvard Medical School  
Associate Physician at the Brigham and Women's Hospital  
Boston, MA, USA

**Title:** Complex trait epigenetics: Impact of cigarette smoking on the epigenome and implications for lung disease

1.55 – 2.20 PM

**Shuji Ogino, MD., PhD.**

Associate Pathologist at the Brigham and Women's Hospital &  
Associate Professor of Pathology, Harvard Medical School, Boston, MA, USA

**Title:** Epigenomics and Epigenetics of Colorectal Cancer: Deciphering complex multifactorial diseases

2.20 – 2.45 PM

**James E. Bradner, MD.**

Assistant Professor of Medicine at the Dana-Farber Cancer Institute  
Harvard Medical School, Boston, MA, USA

**Title:** Targeting Epigenetic Reader Proteins

2.45 – 3.10 PM

**Huawei Zeng, PhD.**

Research Molecular Biologist  
USDA ARS Grand Forks Human Nutrition Research Center  
Grand Forks, ND, USA

**Title:** Dietary selenium intake increases exon-specific DNA methylation of p53 gene in rat liver and colon mucosa

**3.10 – 3.45 PM      Refreshment Break (35 min) Visit of Exhibits**

3.45 – 4.10 PM

**Manon van Engeland, PhD.**

Professor of Pathology at the GROW-School for Oncology & Developmental Biology  
Maastricht University Medical Center, Maastricht, The Netherlands

**Title:** Promoter CpG island methylation in colorectal cancer: biology and clinical applications

4.10 – 4.35 PM

**Aditi Hazra, PhD, MPH.**

Assistant Professor of Medicine at the Harvard School of Public Health &  
Member of the Program in Molecular and Genetic Epidemiology  
Channing Lab, Brigham and Women's Hospital, Boston, MA, USA

**Title:** One-carbon metabolism, epigenetics and colorectal cancer

4.35 – 5.00 PM

**Rafal M. Iwasiow, PhD.**

Product Development Manager  
DNA Genotek, Ottawa, Canada

**Title:** Saliva: a window into the body?

5.00 – 5.25 PM

**Housheng Hansen He, PhD.**

Post doctoral Fellow in the Lab of Dr. Shirley Liu  
Dana-Farber Cancer Institute & Harvard School of Public Health, Boston, MA, USA

**Title:** Chromatin Dynamics Define Transcriptional Enhancers in Prostate and breast cancer

5.25 – 5.50 PM

**To Be Announced**

**5.50 PM      End of the First Day**

## Day 2: Tuesday, July 12

**8:00 A.M:**                    **Registration Open (Coffee and breakfast)**

**9.00 – 12.15 AM:**        **Session III: Sequencing, Imaging & Epigenomics-based Drugs**  
Chair: Gerald Schock

9.00 – 9.05 AM            Introduction of Industry Keynote speaker

9.05 – 9.45 AM            **Industry Keynote Lecture by**  
**Gerald Schock, PhD.**  
Associate Director of Epigenetics Technologies  
Qiagen, GmbH  
Hilden, Germany

**Title:** Innovations in epigenetics — advanced bisulfite conversion, pre-designed Pyrosequencing assays, and PCR arrays for cloning-free quantitation of variations in DNA methylation

9.45 – 10.10 AM        **Tomoji Kawai, PhD.**  
Professor & Presidential Aide  
The Institute of Scientific and Industrial Research  
Osaka University, Ibaraki, Osaka, Japan

**Title:** Gating Nanopores for Single-Molecule DNA Electrical Sequencing

10.10 – 10.35 AM        **John F. Thompson, PhD.**  
Senior Director of Genomic Research  
Helicos BioScience Corporation, Cambridge, MA, USA

**Title:** Quantitative Epigenomics: Why skipping amplification using single-molecule sequencing is important

**10.35 -11.00 AM        Refreshment Break (25 min) Visit of Exhibits**

11.00 – 11.25 AM        **Mark Roskey, PhD.**  
Vice President of Biology & R&D  
Caliper Life Sciences, Inc., Hopkinton, MA, USA

**Title:** Optimizing Automated Sample Preparation Workflow for Improved Quality New Generation Sequencing

11.25 – 11.50 AM        **Robert A. Copeland, PhD.**  
Executive Vice President & Chief Scientific Officer  
Epizyme, Inc.  
Cambridge, MA, USA

**Title:** Protein Methyltransferase Inhibitors as Personalized Cancer Therapeutics

11.50 – 12.15 PM        **James McNally, Ph.D.**  
Staff Scientist in the Laboratory of Receptor Biology and Gene Expression &  
Head of Fluorescence Imaging Group at the National Cancer Institute  
National Institutes of Health, Bethesda, MD, USA

**Title:** The live cell kinetics of transcription

**12.15 – 1.30 PM Lunch Break (1 hour 15 min. ON YOUR OWN)**

**1.30 – 5.30 PM        Session IV: SNIpomics: Single Nucleotide Polymorphisms (SNPs) &**  
**Copy Number Variations (CNVs)**  
Chair: Robert Plenge

- 1.30 – 1.55 PM**      **Robert M. Plenge, MD, PhD.**  
Assistant Professor of Medicine at the Harvard Medical School  
Director, Genetics and Genomics at the Brigham and Women's Hospital  
Research Scientist at the Broad Institute of MIT and Harvard, Boston, MA, USA  
**Title:** Genetic architecture of rheumatoid arthritis risk
- 1.55 – 2.20 PM      **Karuna Kar Singh, PhD.**  
Post doctoral Fellow in the Lab of Dr. Tsai' s Lab  
Picower Inst. of Learning & Memory  
Massachusetts Inst. of Technology, Cambridge, MA, USA  
**Title:** Understanding the Function of Human DISC1 Variants in Neural Progenitor Cell Development
- 2.20 – 2.45 PM      **Hakon Hakonarson, MD, PhD.**  
Associate Professor of Pediatrics at the Univ. of Pennsylvania School of Medicine  
Director of the Center for Applied Genomics, The Children's Hospital of Philadelphia  
Philadelphia, PA, USA  
**Title:** TBA
- 2.45 – 3.10 PM      **Rahul Bharadwaj Iyer**  
PhD Student in the Lab of Dr. Schahram Akbarian  
Brudnick Neuropsychiatric Research Institute  
University of Massachusetts Medical School, Worcester, MA, USA  
**Title:** Higher order chromatin structure is conserved at the N-Methyl D-aspartate receptor gene  
Grin2B
- 3.10 – 3.45 PM**      **Refreshment Break (35 Min) Visit of Exhibit Booths (Removal at 3.50 PM)**
- 3.45 – 4.10 PM      **Benoit Labonte**  
PhD Student Dr. Gustavo Turecki's Lab  
Douglas Mental Health Institute, McGill University  
Montreal, Quebec, Canada  
**Title:** Epigenetics of suicide: A genome-wide DNA methylation study
- 4.10 – 4.35 PM      **Deepti Dileep Deobagkar, PhD.**  
Professor of Molecular Genetics at the Center of Advanced Studies &  
Director of Bioinformatics Center, University of Pune, Pune, India  
**Title:** Methylomic analysis of X chromosome inactivation and correlation with  
evolutionary strata and microRNAs
- 4.35 – 5.00 PM      **Alan Cantor, MD, PhD.**  
Assistant Professor of Pediatrics at the Harvard Medical School  
Assistant in Medicine (Hematology/Oncology) at the Children's Hospital Boston  
Boston MA, USA  
**Title:** TBA
- 5.00 – 5.25 PM      **To Be Announced**
- 5. 25 – 5.30 PM**      **CLOSING REMARKS BY THE CHAIRMAN**

\* Speaker names, titles and order may subject to change.

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