



**Centers of Excellence in Genomic Science**  
**Eleventh Annual Grantee Meeting**  
**National Human Genome Research Institute**  
**National Institutes of Health**  
**October 15-17, 2013**  
**DRAFT 26 September**  
**University of Wisconsin at Madison**  
**Madison, WI**

**AGENDA**

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*(Monday-Tuesday, October 14<sup>th</sup>-15<sup>th</sup> DAP Meeting)*

**Tuesday, October 15<sup>th</sup> Varsity Hall III, Union South (2<sup>nd</sup> Floor)**

5:30 PM	<b>Registration Opens, Begin Poster Set-up</b>	<b>Varsity Hall III, Union South</b>
6:45 PM	Welcome	Michael Olivier, Lloyd Smith
7:00 PM	<b>Christine Ladd-Acosta (for Andrew Feinberg)</b>	<i>Epigenetic Epidemiology</i>
7:25 PM	Discussion Leader: TBD	
7:35 PM	Lightning Talks (7 minutes each plus discussion; slides preloaded)	
7:35 PM	Martin Aryee	<i>Addressing the Confounding Effect of Cellular Heterogeneity in Studies of DNA Methylation</i>
7:45 PM	Michael Multhaup	<i>Cross-Species Analysis Identifies Differentially Methylated Regions in Inflammatory and Metabolic Genes in Diet-Related Diabetes</i>
7:55 PM	Yun Liu	<i>DNA Methylation Clusters Under Genetic Control Can Inform Genetic and Epigenetic Analysis of Human Disease</i>
8:05 PM	<b>Reception, Poster Session I Begins</b>	<b>Varsity Hall III, Union South</b>
10:00 PM	<b>Adjourn</b>	

**Wednesday, October 16<sup>th</sup>**

**Varsity Hall III, Union South (2<sup>nd</sup> Floor)**

**7:15 AM Continental Breakfast Union South**

8:15 AM The CEGS Program Jeff Schloss

8:30 AM **George Church** *From Genome Editing and Causal Variation to Personalized Organs on Chips*

8:55 AM Discussion Leader: TBD

9:05 AM Lightning Talks (7 minutes each plus discussion; slides preloaded)

9:05 AM J. Keith Joung *Regulation of Endogenous Human Gene Expression Using Engineered TALE- and CRISPR RNA-Guided Activators*

9:15 AM Luhan Yang *Using CRISPR/CAS and Heart-on-chip Technologies to Study a Mitochondrial Cardiomyopathy*

9:25 AM Evan Daugharthy *Fluorescent in Situ RNA Sequencing*

9:35 AM **Michael Gould**

10:15AM Discussion

10:25 AM **Break**

11:00 AM **John Blangero** *Identification of Rare Variants Influencing Disease Risk Using WGS*

11:40 AM Discussion

**11:50 AM Lunch Union South**

1:30 PM **Simon Tavaré** *Genomic Analysis of the Genotype-Phenotype Map*

1:55 PM Discussion Leader: David Benton

2:05 PM Lightning Talks (7 minutes each plus discussion; slides preloaded)

2:05 PM Reza Ardekani *Finding the Genetic Basis of Schooling Behaviour in Sticklebacks*

2:15 PM Richard Clark *The Basis of Gene Expression Variation in Arabidopsis*

2:25 PM Sergey Nuzhdin *Genotype-to-Phenotype Mapping in Post GWAS World*

2:35 PM **Break**

3:00 PM	<b>Aviv Regev</b>	<i>Center for Cell Circuits: Harnessing Variation in Cells and Individuals as Perturbations for Circuit Reconstruction</i>
	3:25 PM	Discussion Leader: Emre Guney
3:35	Lightning Talks (7 minutes each plus discussion; slides preloaded)	
	3:35 PM	Loyal Goff <i>Multiple Knockout Mouse Models Reveal lncRNAs are Required for Life and Proper Brain Development</i>
	3:45 PM	Rahul Satija <i>Single Cell Transcriptomics: Exploring Heterogeneity in Immune Response</i>
	3:55 PM	Jimmie Ye <i>Human Genetic Variants That Alter Pathogen-Sensing Responses</i>
4:05 PM	<b>Michael Olivier and Lloyd Smith</b>	<i>Developing a “Genomic Microscope”</i>
	4:30 PM	Discussion Leader: Monica Schenone
4:40	Lightning Talks (7 minutes each plus discussion; slides preloaded)	
	4:40 PM	Julia Kennedy-Darling <i>Characterization of Protein: DNA Interactions at Gene Targets in E. coli and S. cerevisiae Through Sequence Specific Capture</i>
	4:50 PM	Hector Ahlers <i>In Vivo Analysis of DNA-Protein Interactions in Human Cell Lines Using a Novel Approach</i>
	5:00 PM	Rachel Knoener <i>Hybridization Capture and MS Identification of RNA-Specific Binding Proteins</i>
5:10 PM	<b>Reception, Poster Session II Begins</b>	<b>Varsity Hall III, Union South</b>
9:00 PM	<b>Adjourn</b>	

**Thursday, October 17<sup>th</sup>**

**Chemistry Department, Room 1315**

7:15 AM	<b>Continental Breakfast</b>	<b>Chemistry Department, Room 1371</b>
8:30 AM	<b>Marc Vidal</b> Albert-László Barabási, Frederick P. Roth and David E. Hill	<i>Genomic Analysis of Network Perturbations in Human Disease</i>
	9:15AM	Discussion Leader: Michael Shortreed
9:35 AM	<b>Break</b>	
10:00 AM	<b>Fernando Pardo-Manuel de Villena</b>	<i>An Interdisciplinary Program for Systems Genomics of Complex Behaviors</i>
	10:25 AM	Discussion Leader: David Hill
10:35 AM	Lightning Talks (7 minutes each plus discussion; slides preloaded)	
	10:35 AM	Paola Giusti-Rodríguez <i>Collaborative Cross Recombinant Inbred Inter- Crosses (RIX) for the Study of Antipsychotic Pharmacogenomics</i>
	10:45 AM	Fei Zou <i>RNA-Seq Analysis for F1 Reciprocal Crosses</i>
	10:55 AM	James Holt <i>A Visualization Tool for Exploring the Gene Expression Landscape in a Full Three-Founder Diallele</i>
11:05 AM	<b>Deirdre Meldrum</b>	<i>Overview of the CEGS Microscale Life Sciences Center (MLSC)</i>
	11:30 PM	Discussion Leader: John Aach
11:40 PM	Lightning Talks (7 minutes each plus discussion; slides preloaded)	
	11:40 PM	Thomas Paulson <i>Selection for Genomic Changes in Response to Hypoxia in Pre-Malignant Barrett's Esophagus Cell Lines</i>
	11:50 PM	Laimonas Kelbauskas <i>Alterations in Gene Expression Levels and Metabolic Phenotype in Response to Hypoxic Selection in Pre-Malignant Barrett's Esophagus</i>
12:00 PM	<b>Lunch</b>	<b>Steenbock's on Orchard, at the Wisconsin Institute for Discovery</b>
1:30 PM	<b>Adjourn</b>	