9:00  Refreshments, lobby

9:30  Opening Remarks
   Charles Nicolet, Ph.D., Director of Sequencing Technology (cnicolet@usc.edu)
   Epigenome Data Production Facility

9:40  “Clearing the Sample Prep Bottleneck in Next Generation Sequencing”
   Steven M. Hoffman, Application Specialist (steven.hoffman@fluidigm.com)

   The Access Array System is a target enrichment platform that uniquely combines the cost and throughput of microfluidics with the sensitivity and specificity of PCR. The Access Array System allows you to “Do More With Less”, going from 48 genomic DNAs to a library ready for clonal amplification in approximately 4 hours, yielding uniform amplicon yield from as little as 50ng of Genomic DNA with a minimum of manual manipulation. We demonstrate the flexibility to work across: multiple species, multiple sequencers and a range of amplicon product sizes with example data from 454 and Illumina.

   Also on Hand: Dr. Caroline Dando (caroline.dando@fluidigm.com)
   Fluidigm Rep: Susan Robelli (susan.robelli@fluidigm.com)

10:55  "Advances in Targeted and Exome Capture"
   Pedja Sekaric Ph.D. Roche NimbleGen

   Roche NimbleGen rep: Edd Lee (edd.lee@roche.com)

12:15  Lunch. lobby

1:15  “Illumina’s Presentation on Genome Enrichment.”
   Dan Peiffer, Ph.D.: Sr. Product Manager, DNA Sequencing Applications (dpeiffer@illumina.com)

   Also on hand: Jeremy Preston: Marketing Manager, Sequencing (jpreston@illumina.com)
   Illumina rep: Kim Woller (kwoller@illumina.com)

2:30  “SureSelect: The Agilent Technologies SureSelect Platform for Target Enrichment: Focus your next-gen sequencing on DNA that matters”
   Sheila Purim, Ph.D.: Technical Marketing Specialist, SureSelect Platform (Sheila_purim@agilent.com)

   During this presentation you will learn how the SureSelect Target Enrichment technology works and how it can be applied for genetic variation screening in Mendelian and complex diseases research. We will review recent publications, highlighting some breakthrough discoveries that our technology has enabled, at the same time as we present updates in the SureSelect portfolio, which expands from All Exon kits to customizable assays of any size for DNA and RNA capture. Finally, you will learn how to scale up your project in order to study thousands of samples with SureSelect, by indexing libraries and implementing automation in the workflow
“Next-Generation Sequencing Analysis Software”
Jean Jasinski (jean@strandsi.com)

The Avadis NGS analysis software is capable of analyzing aligned data (i.e. BAM format) from every major sequencing platform. Workflows include ChIP-Seq for transcriptional regulation studies, RNA-Seq for digital gene expression and discovery of novel genes, exons, gene fusions, and DNA-Seq for SNP/Indel and large structural variatiant discovery. Compatible with Agilent's SureSelect Target Enrichment system, Avadis NGS allows you to filter out your off-target reads and focus on the analysis and biology of your exact regions of interest. The built-in Genome Browser, GO Analysis, Pathways and Network Analysis tools help you put biological context around your data. http://www.avadis-ngs.com

Agilent Rep: Stephanie Pappas (stephanie_pappas@agilent.com)

3:45 Refreshments and open discussion, lobby

All refreshments are being generously provided by Fluidigm, Illumina, Roche NimbleGen, and Agilent