

Partek Data Analysis Workshop featuring Partek[®] Genomics Suite™ software

Day One - RNA Expression

Time	Торіс
09:00 – 10:00	Introduction Lecture: Do shoes affect height? Using the wrong statistical test and a discussion of the results.
	Brief discussion on Experimental Design : How you'll benefit from using ANOVA for your expression studies
10:00 – 10:15	Break
10:15 – 12:00	 Hands-on Expression Analysis Import from Affymetrix CEL files Review on import from Illumina, Agilent, or NimbleGen Analysis of a Two-Factor Design – Disease State across Tissue Interpreting an ANOVA table Gene Ontology to aid biological interpretation GO ANOVA – Finding differentially affected categories
12:00 – 13:00	Lunch
13:00 – 14:00	 Additional Topics on Gene Expression Finish unaddressed topics from the morning session Brief overview on Affymetrix Exon Analysis
14:00 – 14:45	 Global DNA-protein Interaction and Integrating w/Expression Workflows for either ChIP-chip or ChIP-seq analysis Merging ChIP data with Gene Expression
14:45 – 15:00	Break
15:00 – 17:00	Hands on Data Analysis with Your Data Bring your own data and sample attributes. Import them into Partek and we'll be available to help and consult with you on the best analysis path.

Day Two - DNA Copy Number / CGH

Time	Торіс
09:00 – 10:00	Introduction Lecture: Copy Number Basics
09:30 – 10:30	 Hands on Copy Number Analysis Importing Affymetrix, Illumina, NimbleGen, or Agilent data Creating a table of copy number intensities relative to a baseline Creating a table of copy number segments
10:30 – 10:45	Break
10:45 – 12:00	 Hands on Copy Number Analysis Creating a table of shared segments by number of samples Creating a table of shared segments by categorical variables Visualizing Copy Number by Karyoview Visualizing Copy Number by Genomic Browser Clustering Copy Number
12:00 – 13:00	Lunch
13:00 – 14:45	 Additional Copy Number Topics Incorporating Allele Ratio into Copy Number Allele Specific Copy Number Loss of Heterozygosity (LOH) coupled with Copy Number
14:45 – 15:00	Break
15:00 – 15:45	Integrating Gene Expression & Copy Number • Creating Gene-based merged CN & GX table • Creating a Segment-based merged CN & GX table • Creating a Gene-based correlation table of CN & GX
15:45 – 17:00	Hands on Data Analysis with Your Data Bring your own data and sample attributes. Import them into Partek and we'll be available to help and consult with you on the best analysis path.