Wednesday, July 20, 2005

Final Registration HUB - Heritage Hall
(6:00 p.m. - 7:30 p.m.)

Reception HUB - Heritage Hall
(6:30 p.m. - 8:00 p.m.)

Thursday, July 21, 2005

Final Registration
Life Sciences Building – Berg Auditorium
(7:30 p.m. - 9:30 p.m.)

Session I
Life Sciences Building - Berg Auditorium

*Evolutionary and Population Genomics*
(8:30 a.m. - Noon)

Chair: Kateryna Makova (*Penn State*)

Lauren Duret, Ph.D. (*Université Claude Bernard*)
"Relationships between genome organization and gene expression in mammals: selective constraints or neutral evolution?"
Phil Green, Ph.D. (University of Washington)
"Signal and noise in genome sequences"

Andrew Clark, Ph.D. (Cornell University)
"Inferring demography and selection from human genome-wide resequencing data"

Wen-Hsiung Li, Ph.D. (University of Chicago)
"Effects of recombination on the rate and pattern of nucleotide substitution in mammals"

Bernard M.E. Moret, Ph. D. (University of New Mexico)
"Phylogenetic reconstruction: Handling large scale and complex data"

Industrial Exhibits

Life Sciences Building – Verne M. Willaman Gateway
(11 am-3 pm)
VWR sponsored

Session II
Life Sciences Building - Berg Auditorium

Genome Function from Comparisons
(2:00 pm-5:30 pm)

Chair: Wojciech Makalowski (Penn State)

Eric Green, Ph.D. (National Institutes of Health)
"Deciphering genome function by multispecies sequence comparisons"

Roderic Guigo, Ph.D. (University of Pompeu Fabra)
"Finding protein-coding genes"
Dave Burt, Ph.D. (Roslin Institute of Edinburgh)
"The chicken genome: an evolutionary tool for the identification of functional elements in the vertebrate genome"

Rick Myers, Ph.D. (Stanford University)
"Regulation of gene expression at a genome-wide level"

Mathieu Blanchette, Ph.D. (McGill University)
"New algorithms for the detection of functional regions in DNA sequences"

Keynote Address
Life Sciences Building - Berg Auditorium
(7:30 p.m. - 9:00 p.m.)

Robert Waterston, Ph.D. (University of Washington)
"The human genome: At the barricades"

Friday, July 22, 2005

Session III
Life Sciences Building - Berg Auditorium

Genome Structure and Dynamics
(8:30 a.m. - Noon)

Chair: Anton Nekrutenko (Penn State)

Arian Smit, Ph.D. (The Institute for Systems Biology)
"Bioinformatics analysis of transposable elements in whole genomes"

Elaine Ostrander, Ph.D.
(National Human Genome Research Institute)
"Dog star rising: Status of the canine genome project"
Barbara Trask, Ph.D. (Fred Hutchinson Cancer Research Center)  
"The dynamics of segmental duplications containing human olfactory receptor genes"

Glenn Tesler, Ph.D. (University of California at San Diego)  
"The Nadeau-Taylor Chromosomal Breakage Model vs. the Fragile Breakage Model, revisited"

Nina Fedoroff, Ph.D. (Penn State)  
"Intracellular communication between the cell's genomes"

Oral Platform Presentations  
Life Sciences Building - Berg Auditorium  
(2:00 pm-5:30 pm)

Chair: Arthur Lesk (Penn State)  
Chair: Francesca Chiaromonte (Penn State)  

Sessions: TBA  
Posters and Reception Life Sciences Building - Verne M. Willaman Gateway (7:30 p.m. - 10:00 p.m.)

Saturday, July 23, 2005

Session IV  
Life Sciences Building - Berg Auditorium  
Genome Function from Experiments  
(8:30 a.m. - Noon)

Chair: Ross Hardision (Penn State)  

Bing Ren, Ph.D. (Ludwig Institute for Cancer Research)  
"Mapping the genome's second code"

Tom Gingeras, Ph.D. (Affymetrix Corp)  
"Changing landscape of the functional domains of the human genome: Evidence for increased roles for RNA"
Kelly Frazer, Ph.D. (Perlegen Sciences, Inc.)  
"Allele expression differences are associated with phenotypic variation in humans"

Esther Betran, Ph.D. (University of Texas)  
"Sex Chromosomes and Male Functions: Where Do New Genes Go?"

John Stamatoyannopoulos, Ph.D. (Regulome Corp)  
"Using chromatin structure to map the cis-regulatory genome"

Session V  
Life Sciences Building - Berg Auditorium  

From Genomes to Mechanisms  
(2:00 pm-5:30 pm)

Chair: Stephan Schuster (Penn State)

Reka Albert, Ph.D. (Penn State)  
"Connections between the topology and function of cellular networks"

Frank Pugh, Ph.D. (Penn State)  
"Genomic approaches to understanding mechanisms of eukaryotic transcription"

Lisa Stubbs, Ph.D. (Lawrence Livermore National Lab)  
"Lineage-specific change in transcription factor repertoires: implications for the evolution of vertebrate regulatory networks"

Maja Bucan, Ph.D. (University of Pennsylvania)  
"Behavioral genetics and genomics"

Laura Carrel, Ph.D. (Hershey Medical Center, Penn State)  
"X-inactivation and escape from it"