



IGB Symposium
HTS to P4 Medicine at UCI

Friday, February 18, 2011 - Calit2 Auditorium

9:00 *Welcome and Overview of Next-Generation DNA Sequencing Strategies*

Suzanne Sandmeyer, co-organizer, Professor,
Dept. Biological Chemistry and Director Genomics
High-Throughput Facility

Bob Chadwick, Manager
Genomics High-Throughput Facility

9:20 **Xiaohui Xie**, Assistant Professor,
Dept. Computer Science

*Computer Tools for Mapping, Compressing
and Querying High-Throughput Sequences*

Jake Biesinger, BIT trainee

Computational Pipeline for ChIP-seq Analysis

9:50 **Christophe Magnan**, Postdoctoral Scholar,
Dept. Computer Science

*UCI Genomics High-Throughput Sequencing
Pipeline*

10:10 **Break**

10:30 **Harry Mangalam**, Research Computing
Specialist, Office of Information Technology

*Overview of UCI Broadcom Distributed
Unified Cluster (BDUC) and Bioinformatics Tools
and Resources*

10:50 **Klemens Hertel**, Associate Professor,
Dept. Microbiology and Molecular Genetics

*Dependence of mRNA-seq Coverage on
Library Construction Technologies*

11:10 **Pierre Baldi**, Professor,
Dept. Computer Science

*Integrative Systems Biology Approaches to Gene
Regulation and Beyond*

11:30 **Lisa Dahm**, Director of Clinical Informatics and
Director, Center for Biomedical Informatics

*Clinical and Research Data Warehouse:
A Catalyst for Personalized Medicine*

11:50 **Lunch**

1:00 **Tony Long**, Professor,
Dept. Ecology and Evolutionary Biology

*Genomewide Analysis of an Evolution
Experiment in *Drosophila**

1:00 **Elizabeth King**, Postdoctoral Fellow,
Dept. Ecology and Evolutionary Biology

*Estimating Complete Genotype Data from a
Collection of Dense Semi-Codominant SNP Markers
in the *Drosophila* Synthetic Population Resource*

1:30 **Kevin Thornton**, Assistant Professor,
Dept. Ecology and Evolutionary Biology

*Structural Variation in Natural Populations of *Drosophila**

1:50 **Ira Blitz**, Associate Project Scientist,
Dept. Developmental and Cell Biology

*High-Throughput Sequencing to Understand Gene
Regulation in Early Vertebrate Development*

2:10 **Yongsheng Shi**, Assistant Professor,
Dept. Microbiology and Molecular Genetics

*Dynamic Landscape of mRNA Polyadenylation
During Stem Cell Differentiation Revealed by PAS-Seq*

2:30 **Bogi Andersen**, Professor,
Depts. Medicine and Biological Chemistry

Studying Epidermal Differentiation with ChIP-Seq

2:50 **Chad Garner**, co-organizer, Associate Professor,
Dept. Epidemiology and Director for Bioinformatics

*High-Throughput Sequencing and the Role of
Rare Alleles in Complex Human Disease*

3:10 **Break**

3:30 **Michael Zaragoza**, Assistant Professor,
Dept. of Pediatrics

*High-Throughput DNA Sequencing In Patients
with Mitochondrial Cardiomyopathy*

3:50 **Taosheng Huang**, Associate Professor,
Dept. Pediatrics

Clinical Applications of Next-Gen Sequencing

4:10 **Daniel Mercola**, Professor,
Dept. Pathology and Director, Center for Personalized
Medicine.

*The Center for Personalized Medicine
Initiative at UCI*

4:30 **Chad Garner**, co-organizer

Closing Remarks

**For more information
and free reservations:
www.igb.uci.edu
or call (949) 824-9296**