

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Big Data in Biology (F2)

March 23-25, 2014 • Fairmont San Francisco • San Francisco, CA, USA

Scientific Organizers: Lincoln D. Stein, Doreen Ware and Michael Schatz

Supported by the Directors' Fund

Abstract & Scholarship Deadline: November 19, 2013 / Abstract Deadline: December 18, 2013 / Discounted Registration Deadline: January 21, 2014

MONDAY, MARCH 24

Keynote Address: Cancer Hub

David Haussler, University of California, Santa Cruz, USA

Databases and Clouds

Paul Flicek, European Bioinformatics Institute, UK
European Genome Phenome Archive

Dan Stanzione, University of Texas at Austin, USA
The iPlant Collaborative: Cyberinfrastructure for 21st Century Biology.

Jill Mesirov, Broad Institute, USA
GenomeSpace: A Community Web Environment for Genomic Analysis Across Diverse Bioinformatic Tools

Michael Schatz, Cold Spring Harbor Laboratory, USA
Scalable Solutions for Next-Gen Sequence Analysis

Matt Wood[†], Amazon Web Services, Inc., USA
Biological Computing in the Cloud

Short Talk(s) Chosen from Abstracts

Panel: Big Data Challenges & Solutions: Control Access to Individual Genomes

TUESDAY, MARCH 25

Personal Genomes

Lincoln D. Stein, Ontario Institute for Cancer Research, Canada
The International Cancer Genome Consortium Database

Ajay Royyuru, IBM T.J. Watson Research Center, USA
The Genographic Project

Mark Gerstein, Yale University, USA
Big Data in Human Genome Annotation

Speaker to be Announced

Anne Wojcicki[†], 23andMe, USA
Our Genes, Our Communities

Short Talk(s) Chosen from Abstracts

Imaging/Pharmacogenomics

Susan Sunkin, Allen Institute for Brain Science, USA
Allen Brain Atlas

Jason Swedlow, University of Dundee, Scotland
The Open Microscopy Environment: Open Source Image Informatics for the Biological Sciences

Henning Hermjakob[†], European Bioinformatics Institute, UK
Chemical Entities of Biological Interest (ChEBI)

Speaker to be Announced

Short Talk Chosen from Abstracts